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1911/12

BULLETIN
THE
OF
TULANE UNIVERSITY
OF LOUISIANA

Series 13, No. 7, July, 1912



MEDICAL DEPARTMENT

1911-1912

ANNOUNCEMENT FOR 1912-13
AMERICAN MEDICAL ASSN.

RECEIVED

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JUN 28 1912

COUNCIL ON MEDICAL EDUCATION

THE TULANE UNIVERSITY OF LOUISIANA

N. E. W. O. R. L. E. A. N. S.

EDWIN BOONE CRAIGHEAD, M. A., LL. D., D. C. L., President.

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THE MEDICAL DEPARTMENT is the oldest medical college in the Southwest, with unexcelled clinical and laboratory advantages. The first two years are given in the new buildings of this department on the Tulane Campus, and the last two years at the Hutchinson Memorial and the great Charity Hospital.

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For special circulars or for detailed information, address the Deans of the respective departments. For General Register of the University, address,

SECRETARY OF TULANE UNIVERSITY,

Gibson Hall New Orleans

MEDICAL DEPARTMENT
OF THE

TULANE UNIVERSITY OF LOUISIANA

Formerly { 1834-1847 Medical College of Louisiana
1847-1884 Medical Department, University of Louisiana

1911-1912

ANNOUNCEMENT FOR 1912-1913

C A L E N D A R

1912-1913

Sept. 21 Saturday to Sept. 28 Saturday	{ Entrance and Condition Ex- aminations
Sept. 30 Monday	University Year begins.
Oct. 14 Monday	Last Day of Registration.
Nov. 1 Friday	All Saints Day.
Nov. 28 Thursday	Thanksgiving Day.
Dec. 24 Tuesday	Christmas Recess begins.

1913

Jan. 3 Friday	University reopens.
Feb. 3 Monday	Second Term begins.
Feb. 4 Tuesday	Mardi Gras.
Mar. 13 Friday	Founders' Day.
May 31 Saturday	Senior Class Day Exercises.
June 4 Wednesday	{ University Commencement. University Year ends.
June 9 Monday	Summer School of Medicine begins.

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2216 Camp Street.

LODILLA AMBROSE, Librarian and Clerk, Department of Tropical

Medicine, 1551 Canal Street.

ANNOUNCEMENT

This department was founded in 1834, as the Medical College of Louisiana; in 1847 it became the Medical Department of the University of Louisiana, and in 1884, the Medical Department of the Tulane University of Louisiana. It is the oldest Medical College in the Southwest and has the greatest number of Alumni. To May, 1912, there have been graduated 4514 in Medicine.

The Seventy-ninth Annual Session Opens **MONDAY,**
SEPTEMBER 30, 1912.

GENERAL STATEMENT

The Tulane University of Louisiana organically continued the University of Louisiana in 1884, through the beneficence of Paul Tulane. In the development of the reorganized University the Medical Department advanced its standards from time to time in consistent measure with the growing demands of medical education.

Advanced Standards With the acceptance of the University by the Carnegie Foundation the standards for entrance of students became uniform in all departments regulated by the requirements of the Foundation and the Medical Department has complied with all these demands.

With the beginning of the session of 1910-11 not only were 14 Carnegie units required for entrance but in addition one year's study in Chemistry, Physics, Biology (including Botany and Zoology) and in one modern language other than English.

The Medical Department of the Tulane University of Louisiana today is one of the very few Southern Colleges with such requirements, which have been established in the belief of the Faculty and of the University authorities that the South now demands educational standards of the first order.

**Preliminary Year
to Medical Studies**

With a view to meet the deficiencies of many students who have had high school training and who lack the science branches now required for entrance at Tulane, the Faculty announces a PRELIMINARY YEAR of instruction, permitting such students to qualify in the following year for the Freshman Class in the Medical Department, without entrance conditions.

This course provides a mixed course given in the Medical Department in conjunction with certain courses in the Academic Colleges, embracing the subjects of **Biology**, **Botany**, **Chemistry**, **Physics**, **Embryology**, **Histology** and **Osteology**, together with laboratory periods, demonstrations and lectures. In addition an opportunity will be given students in this course to qualify in one of the required modern languages.

The Faculty of the Tulane Medical Department realizes that the regular course in medicine has become too crowded to allow the efficiency in instruction desired with the present four years' schedule and this preliminary year is undertaken with the view of gradually developing the five years' course in medicine now so urgently needed for the proper fulfilment of instruction in all divisions of medical teaching and advocated by the American Medical College Association, of which this College is a member.

This preliminary course is particularly directed at satisfying the complementary education, now necessary for the preparation of graduates from our Southern high schools and academies who intend to take up the study of medicine.

The arrangement of this course further provides for the proper and direct admission of college graduates and advanced college students into the First, or Freshman year, thus completing the course in four years of study.

SYNOPSIS OF INSTRUCTION

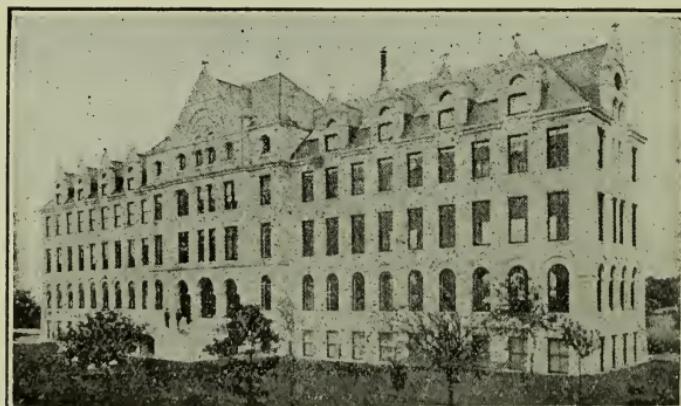
Students of the **first two years** are taught in the atmosphere of the University Campus. This plan has been arrived at through the recognition of like methods at some of the best institutions in the country, and because of the logical merits of establishing a foundation in the primary branches of medicine, before the Clinical Instruction is undertaken.

During the **last two years** the courses are given in the Hutchinson Memorial, and at the various institutions with which the Tulane Medical Department is associated, viz., the Charity Hospital, the Touro Infirmary, the Presbyterian Hospital, &c.

It is universally admitted that, without abundant laboratory and clinical material, no medical school, however numerous or eloquent its professors, can possibly fit its pupils for practical professional life. It is scarcely necessary to state that it is only in large cities that such advantages can be procured, but it is of paramount importance that the opportunities there afforded should be properly utilized; that the

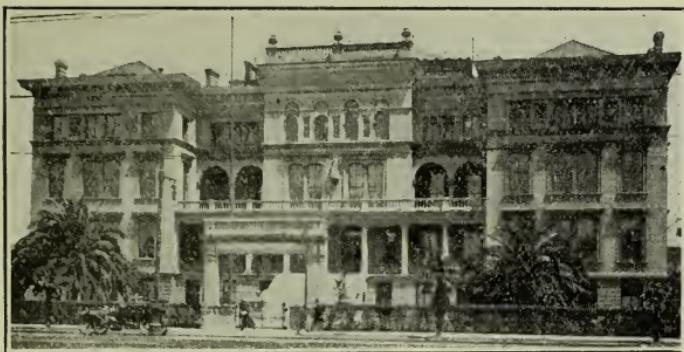
students should be required, under the direction of the teacher, to examine patients for themselves, to keep records of cases, to note daily changes which may occur, and thus acquaint themselves, by personal observation, with the progress and termination of diseases and accidents. The mere introduction of a patient into an amphitheater, and the discussion of his case by the professor in the presence of a class, is no substitute for bedside and clinical instruction, such as is supplied by the great Charity Hospital and the splendid Touro Infirmary of New Orleans.

Since October, 1912, a complete outdoor obstetric clinic has been established, insuring ample provisions for the instruction in this branch for third and fourth year classes. A Department of Tropical Medicine and Hygiene, including Preventive Medicine, has also been inaugurated, with required laboratory periods for third and fourth year students.



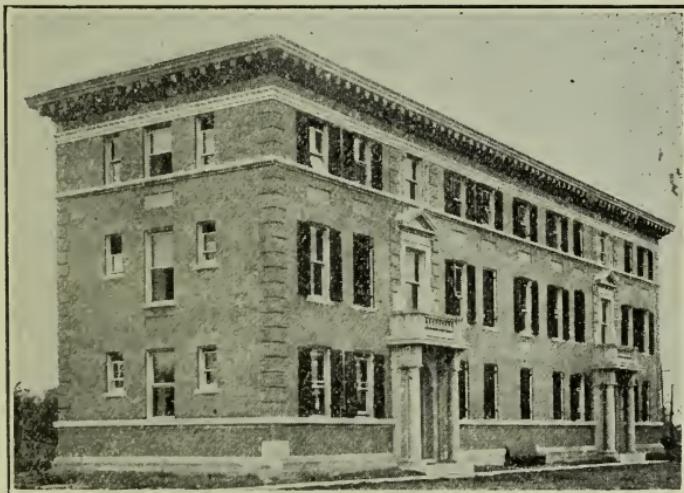
**RICHARDSON MEMORIAL
and
RICHARDSON CHEMISTRY BUILDING**

The Richardson Memorial Building on the Tulane Campus provides the laboratories and equipment for all the teaching of the first two years, excepting for Chemistry, which will be taught in the extensive laboratories of the Richardson Chemistry Building, also located on the Tulane Campus. The facilities afforded for the thorough instruction of students in their first two years in medicine are more than ample and the opportunities are fully in accord with the highest demands of modern medical education.



HUTCHINSON MEMORIAL

The Josephine Hutchinson Memorial Building on Canal Street, with its numerous laboratories and lecture halls provides every facility for the teaching of the last two years. This building is located within two blocks of the Charity Hospital where most of the clinical instruction is conducted.



DORMITORIES FOR MEDICAL STUDENTS

Dormitories have been provided in the first two years, for a limited number of medical students who will have the surroundings of a residential neighborhood and, besides, the contact with the students of the Academic Colleges, thus broadening their education and college spirit.

LIBRARY

The library of the Medical Department is conveniently arranged for reference, in the Hutchinson Memorial, with over 8,000 valuable books and over 3,000 pamphlets, as well as an excellent file of the current medical journals. Additions are being constantly made to this valuable adjunct of medical education. Additional special library facilities are arranged in each of the laboratory divisions.

CHARITY HOSPITAL

The use of the wards of the great Charity Hospital of New Orleans, with over 1000 beds, annually occupied by from nine to ten thousand patients, and the use of two clinical buildings, with about 20,000 outdoor patients annually, have been given by the Legislature to the professors of the Medical Department of The Tulane University of Louisiana, for the practical instruction of its students, not only in all the divisions of medicine and surgery, but also in obstetrics and gynecology, as well as in pathology. Medical students are given access to the Charity Hospital without payment of any hospital fees, and enjoy far better opportunities for the study of diseases therein than are usually possible in the hospitals of other cities. For the study of diseases of the South and also of exotic types of conditions of tropical origin there is no field comparable to the wards of this hospital. Between the Josephine Hutchinson Memorial Building of the Medical Department and the Charity Hospital there are only two squares, which distance is readily walked in three minutes.

The following summary of the hospital services during 1911 will give some idea of the wealth of material:

During the year 13,039 patients were treated. This is the largest number ever recorded in the history of the Hospital. Of this number 10,593 were discharged, 1,535 died, and 911 remained over on the 1st of January, 1912. Excluding the 911 remaining, the whites numbered 7,314, the colored 4,906. Of the white adult males there were 4,066, and 637 boys; of white adult females, 2,139, and 472 girls. Of the colored adult males, 2,851, and 166 boys; of the colored adult females, 1,749, and 140 girls. In the maternity department there were 421 births. The gross mortality was 11.77 per cent., and the net 8.1 per cent., after deducting the deaths occurring soon after admission, which numbered 480.

In the out clinics 21,622 were treated, and 105,113 consultations were given. Emergency cases numbered 9,240; ambulance calls 1,878; surgical operations, 4,697. Of these 1,817 were performed in the Delgado Memorial. In the Pathological Department 15,249 specimens were examined, and in the Pasteur Institute 916 were treated for suspected rabies infection.

In the Charity Hospital the distribution of services is as follows: eighteen wards for females; thirty-four wards for males; nine for children. Of these wards, twenty-five are medical; fifteen surgical; two obstetrical; three gynecological; six for pediatrics; three for diseases of the nervous system; two for genito-urinary and venereal diseases; two for diseases of the eye and for diseases of the ear, nose, and throat; two for diseases of the skin. *All of these wards are accessible to students under the direction of the teaching staff.*

Each of the two clinical buildings for outdoor patients is subdivided into fourteen different services, and all of these are alike in both buildings, namely: for medical cases, for nervous diseases, for surgical cases; for genito-urinary and venereal diseases; for skin diseases; for diseases of the eye; of the ear, nose, and throat, and for cases of dentistry. In addition to these fourteen services the Men and Boys' Clinic has a surgical service for boys, and the Women and Children's Clinic has a gynecological service. This institution has all the provisions for a pediatric service which is likewise largely attended by the students and the teaching staff. In addition there is a Pasteur Clinic in the male clinic for all races, ages and sexes.

MILLIKEN MEMORIAL

The advantages of the Charity Hospital, as one of the greatest schools in the world for practical instruction, were further increased in 1899 by the addition of the Milliken Memorial, a model building for the accommodation of two hundred sick children.

THE DELGADO MEMORIAL

The Delgado Memorial was completed and formally dedicated at the Charity Hospital with appropriate ceremonies on December 19th, 1908, and was opened for the reception of patients on April 19th, 1909. This beautiful building was "erected in loving memory of Samuel and Virginia Delgado, for the relief of the suffering poor of both sexes who may be benefited by the Science and Art of Surgery." The Memorial occupies a conspicuous place on the grounds of the Charity Hospital

with the entrance facing on Tulane Avenue. It is a five story building, strictly fire proof. It was erected and equipped at a cost of 200,000 dollars.

The honor of naming the two chief operating rooms the "Ernest S. Lewis" and the "Rudolph Matas" operating rooms was conferred by Mr. Delgado on these two members of the Tulane Faculty, with the concurrence and approval of the Board of Administrators of the Hospital, not only as an expression of his personal friendship for these gentlemen, but of his appreciation of their long service as visiting surgeons and teachers at the Charity Hospital.

The greatest significance is attached to Mr. Delgado's generous donation from the point of view of medical education and progress and he has specifically stated that the operative material of the Memorial shall always be at the disposition of the heads of the departments of Surgery and Gynecology in Tulane, and for these departments the building was erected and arranged.

Upon the death of Mr. Isaac Delgado, on January 4, 1912, the further sum of \$100,000 was left in trust with the provision that the income should be administered in carrying out the original wishes of the testator when the Memorial was erected. That this might be done in the further interest of the Medical Department, the trustees named were Professors Matas and Lewis, and the Dean of the Department, and their successors.

The professors and clinical instructors are attending physicians or surgeons of the various hospitals and visit their wards and clinics daily, accompanied by the students, who are thus brought into immediate contact with the sick and wounded and are taught practically, including all modern methods of clinical, microscopical and laboratory diagnosis, and surgical procedure and technic. Surgical operations are performed and lectures delivered upon selected cases in the amphitheaters of the hospital.

Special clinical instruction is given to all students of the third and fourth years, who are for this purpose divided into sections and assigned to the professors and clinical instructors in charge of wards and outdoor clinics of the hospital. The classes thus formed interchange courses so that all students enjoy equal advantages. Competent chiefs of clinics aid the clinical teachers in developing this system of instruction.

Lectures on all branches where demonstrations of cases are practicable and of service, will be delivered in the Hospital amphitheaters daily, during the morning hours.

Sections of the classes are taught gross pathology by practical demonstrations in the autopsy rooms of the Pathological Department of the Hospital and in the special laboratories of the Hutchinson Memorial.

HOSPITAL INTERNS

CHARITY HOSPITAL

The administrators of the Charity Hospital elect annually, by competitive examinations, thirty resident interns from the graduating class, on approval of the Medical Department of the Tulane University of Louisiana. These interns are entitled to board and lodging in the institution free of charge and enjoy many privileges and opportunities incident to a two years' incumbency.

TOURO INFIRMARY

Six interns, who must also be graduates, are elected annually by the Administrators of the Touro Infirmary making a total of twelve, each serving two years.

This institution has recently been entirely rebuilt with modern construction in every particular and is representative of the highest type of hospital detail and equipment in all of its departments. It is non-sectarian in its charity, though the administration is directed by prominent members of the Jewish community. The visiting staff is derived from the best available men in all branches, and the Faculty of the Medical Department of Tulane is well represented.

Through the courtesy of the Board and of the medical staff, surgical operations and other clinics at Touro Infirmary are witnessed by groups of men from the fourth year class, regularly assigned to the professors and instructors in various clinical branches.

While this institution provides for the care of private patients, its charity wards and extensive clinics care for thousands of cases annually.

REQUIREMENTS FOR ADMISSION

The requirements for admission to the Medical Department of the Tulane University of Louisiana, are as follows:

ADMISSION TO PREPARATORY COURSE

- 1) Fourteen and a half units of education are required for entrance.
- 2) A "unit" is a subject pursued through one school year, with not less than five recitation periods per week. One "point" is a subject pursued through half of one school year with not less than five recitation periods per week. Two points will be considered equivalent to one unit on those subjects in which instruction for less than one school year is accepted. Fractional points are not accepted, if less than one point; if more than one point and less than any multiple, such points will be figured at the lower number.
- 3) Applicants with twelve units (24 points) may be admitted to partial standing.
- 4) Applicants presenting less than 12 units will not be received.
- 5) All applicants *must offer three units in English, three units in Mathematics* and the additional units from the other subjects here listed. Two units in either Latin or Greek must be offered, but two units in a modern language may be substituted.

6)

1. English Composition	2	16. Physics	I
2. English Literature	1 or 2	17. Chemistry	I
3. Elementary Algebra	1½	18. Biology	I
4. Plane Geometry	I	19. Botany	I
5. Solid Geometry	½	20. Zoology	I
6. Trigonometry	½	21. Physiology	I
7. Latin	2, 3 or 4	22. Physiography	I
8. Greek	2 or 3	23. Freehand Drawing	I
9. French	2 or 3	24. Mechanical Drawing	½
10. Spanish	1 or 2	25. Wood-working	½
11. German	2 or 3	26. Foundry Work	½
12. Ancient History	I	27. Forge Work	½
13. Med. and Mod. Hist.	I	28. Machine Tool Practice	I
14. English History	I	29. Comparative Anatomy	I
15. American History	I	30. Pharmacy	I or 2

7) Certificates for work done in recognized preparatory schools will be accepted only in the case of **graduates** of those schools. Applicants for admission who **have not graduated** from a recognized school *will be admitted only upon examination*.

8) Applicants for admission presenting certified evidence of admission to the Freshman class of a university or college of the same standard as Tulane may submit such evidence instead of a certificate of graduation as above and this will be accepted in lieu of examination.

9) Students are admitted as partial-course students or as special students and may be credited with work accomplished, while engaged in preparation for the fulfilment of the above requirements. Such students must successfully complete *all work undertaken each term*, otherwise they shall be dropped for deficiencies and may enter again only by fulfilling the regular entrance requirements by certificate or entrance examination.

10) Special students, entering without examination or certificate, must satisfy all entrance requirements before they may become regular.

11) The entrance examinations in all departments will be held during the week preceding September 30. Candidates will apply to the Dean for schedule of entrance examinations.

12) Blank forms showing entrance requirements in detail will be furnished on request to the Dean.

ADMISSION TO FRESHMAN CLASS

Students applying for admission to the Freshman year in the Tulane Medical Department must submit official evidence of

1. Graduation from a four year high school course with fourteen units as specified under "Admission to Preparatory Year".

2. In addition evidence must be submitted showing one year's college work or the equivalent in the following subjects:—

Biology (Botany and Zoology, or Botany and Embryology, $\frac{1}{2}$ year each) with laboratory credits.

Chemistry (general chemistry) with laboratory credits.

Physics with laboratory credits.

One Modern Language (French, German, Spanish or Italian).

3. Applicants with credit of one or more years of college work are admitted upon evidence that such work included at least one year's work in the specified sciences.

REQUIREMENTS FOR ADVANCED GRADES

A set of tickets, showing that the holder has attended one full medical course in any regular, recognized medical college, is essential to matriculating for a second year course; and every student, prior to matriculating for a third or fourth year course, shall be required to show by similar evidence that he has previously taken two or three annual courses in medicine. To be credited with a full course, at least eighty per cent of the session must have been attended.

Students from other colleges entering the second, third, or fourth year will be required to show evidence that the entrance requirements of the college at which they commenced the study of medicine were not less than the requirements of this department at the same time.

Any student, who, during his courses in this college, convicts himself of defective general education, shall be required to remove this disability before he is graduated.

SYNOPSIS—STUDIES AND EXAMINATIONS

The full course of Lectures and all Laboratory Courses will begin **Monday, September 30, 1912.**

Preliminary Year (a)—Biology (Botany and Zoology), chemistry, physics, embryology, histology, osteology, and one modern language (French, German or Spanish.)

(b) Examinations will be held during or at the close of the year on all branches taught, and records of satisfactory examinations and laboratory attendance *will be required* in biology, chemistry, and physics. Due credit will be allowed for laboratory work and for examinations in all other branches taken.

First Year (Freshman) (a)—chemistry and toxicology, anatomy; chemistry, histology, osteology, organology minor surgery, practical anatomy (dissecting), in their laboratories.

(b) Examinations will be required during or at the close of the first year on branches taught in this year, embraced by the departments of chemistry, anatomy and histology. Records of satisfactory attendance and knowledge in the laboratories of chemistry, of minor surgery, of histology, and of practical anatomy, will also be required.

Second Year (Sophomore) (a)—Chemistry, physiological and medical, anatomy, physiology, *materia medica* and pharmacology with their laboratories; physical diagnosis, and minor surgery, in their laboratories; anatomy, pathology, bacteriology, and physiological and medical chemistry, in these laboratories.

(b) Examinations will be required during or at the close of the second year on the branches taught in this year, embraced by the departments of chemistry, anatomy, physiology, of *materia medica* and pharmacology, physical diagnosis, pathology and bacteriology and of minor surgery. Records of satisfactory knowledge

and attendance in the laboratories of anatomy, of chemistry, of minor surgery, of physiology, of pharmacology, and of pathology and bacteriology, will also be required.

(c) Students from other colleges, who may enter the second year of this college, will be conditioned on all the studies and examinations of the first year that they may have failed to pass at the medical college previously attended and all but two of these conditions must be removed before they will be allowed to go on with Second Year work.

Third Year (Junior) (a)—Theory and principles of medicine, of surgery, of obstetrics and gynecology (including obstetrical manipulations in normal labor), and clinical instruction in those branches, gross pathological anatomy, physical diagnosis; therapeutics; clinical medicine, tropical medicine and hygiene, venereal and genito-urinary diseases, diseases of children, diseases of the skin; hygiene, pathology and clinical medicine in these laboratories.

(b) Examinations will be required during or at the close of the third year on the branches taught in this year and embraced by the departments of the practice of medicine, of surgery, of obstetrics, of diseases of children, diseases of the skin, of pathological anatomy and of therapeutics, clinical medicine, tropical medicine and hygiene, physical diagnosis, venereal and genito-urinary diseases. Records of satisfactory attendance and knowledge from the laboratories of tropical medicine and hygiene, pathology and of clinical medicine will be also required.

(c) Students from other colleges entering the third year will be conditioned on the primary branches—chemistry, anatomy, physiology and *materia medica* and pharmacology. (Exceptions to this rule will be made for students entering from colleges of the same standards of entrance and advancement as required at Tulane, and who present evidence, duly certified, of having passed these branches at these institutions). They will also be conditioned, on the following branches, unless they submit satisfactory evidence that they have completed them at other medical colleges, viz: Minor surgery, physical diagnosis, and all the laboratory courses of the first and second years.

Fourth Year (Senior) (a)—The practice of medicine, of surgery, of obstetrics and gynecology (including obstetrical manipulations), of therapeutics, and clinical instruction in

those branches, diseases of the nervous system, of children, of the skin, and of the eye, ear, nose, and throat, orthopedics, medical jurisprudence; pathology, clinical medicine, tropical medicine and hygiene, and operative surgery in these laboratories.

(b) Examinations will be required during or at the close of the fourth year, on the branches taught in this year, embraced by the departments of the practice of medicine, of tropical medicine and hygiene, of surgery, of obstetrics, of pathology, of gynecology, of the diseases of children, of the nervous system, of the skin, of the eye, of the ear, nose, and throat, of orthopedics and of medical jurisprudence. A record of satisfactory attendance and knowledge from the laboratories of clinical medicine, pathology and of operative surgery will also be required.

(c) Students from other colleges applying for admission to the fourth year will be conditioned on the primary branches—chemistry, anatomy, physiology, *materia medica* and pharmacology. (Exceptions to this rule will be made for students entering from colleges of the same standards of entrance and advancement as required at Tulane, and who present evidence, duly certified, of having passed these branches at these institutions). They will also be conditioned on therapeutics, clinical medicine, surgery, obstetrics and gynecology, diseases of children, gross pathology, minor surgery, physical diagnosis, diseases of the skin, venereal and genito-urinary diseases, and the laboratory courses of the first three years unless they submit satisfactory evidence of having attended these branches and laboratory courses at other medical colleges.

FIRST YEAR—Schedule of Lectures, Laboratory Exercises, Etc. SESSION 1911-12
 FIRST TERM—SEPTEMBER 29, 1911, TO FEBRUARY 3, 1912

SUBJECTS	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Hrs. per Week	Total Hours
Osteology	8:30-11	9:30-10:30		8:30-11		8:30-9:30	6	90
Histology, Lecture						9:30-12:30	8	120
Histology, Laboratory						9:30-12:30		
Minor Surgery		8:30-9:30	8:30-9:30					
Chemistry, Lecture	11-12	11-12	11-12	11-12			2	30
Gross Anatomy, Laboratory	1-4	1-4	1-4	1-4	1:30-4:30		4	60
Total Hours First Term							15	225
SECOND TERM—FEBRUARY 5 TO MAY 21, 1912								
Chemistry, Lecture	11-12	11-12	11-12	11-12			10	150
Chemistry, Laboratory	8:30-10:30	8:30-10:30	8:30-10:30					
Organology, Lecture						8:30-9:30	8	120
Organology, Laboratory						9:30-12:30		
Gross Anatomy, Laboratory		1-4	1-4	1-4	1:30-4:30		15	225
Total Hours Second Term							33	495
Total Hours First Year								1020

N. B. { Chemistry in the Richardson Chemistry Building.
 All other exercises in the Richardson Memorial.

SECOND YEAR—Schedule of Lectures, Laboratory Exercises, Etc., SESSION 1911-12
FIRST TERM—SEPTEMBER 29, 1911 TO FEBRUARY 3, 1912

SUBJECTS	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Hrs. per Week	Hrs. per Term
Physiology, Lecture	11:30-12:30			11:30-12:30	11:30-12:30	11:30-12:30	4	60
Physiology, Laboratory		II	I	II	I		6	90
Bacteriology, Laboratory		I:30-4:30	1:30-4:30	1:30-4:30	1:30-4:30		6	90
Bacteriology, Lecture		I:30-4:30	1:30-4:30	1:30-4:30	1:30-4:30		2	30
Physiological Chemistry	8:30-10:30	8:30-10:30	8:30-10:30	8:30-10:30	8:30-10:30	12	180	
Neurology, Lecture		10:30-11:30				1	15	
Neurology, Laboratory			10:30-12:30			5	75	
Materia Medica and Pharmacology				10:30-11:30		2	30	
Physical Diagnosis					10:30-11:30	1	15	
Total Hours First Term						39	585	

SECOND TERM—FEBRUARY 5 TO MAY 21, 1912

Physiology, Lecture	8:30-9:30	II I-30-4:30	8:30-9:30 I 1:30-4:30	8:30-9:30 II 1:30-4:30	11:30-12:30 I 1:30-4:30	4	60
Physiology, Laboratory						6	90
Pathology, Laboratory	10:30-12:30	II I 1:30-4:30	1:30-4:30 II I	1:30-4:30 I 1:30-12:30	1:30-4:30 III 1:30-4:30	8	120
Pathology, Lecture		10:30-11:30		10:30-11:30		2	30
Pharmacology, Lecture	9:30-10:30	11:30-12:30	9:30-10:30	11:30-12:30		4	60
Pharmacology, Laboratory	10:30-12:30	I 1:30-4:30	10:30-12:30			2	30
Topographical Anatomy, Laboratory				8:30-11:30		6	90
Physical Diagnosis		9:30-10:30		9:30-10:30	8:30-10:30	4	60
Minor Surgery		8:30-9:30			10:30-11:30	2	30
						38	570
Total Hours Second Term							1155

N. B. { Chemistry in the Richardson Chemistry Building.
All other exercises in the Richardson Memorial.
All schedules subject to revision.

Third Year—Order of Lectures, Clinics, Laboratory Exercises, Etc.—Session 1911-12

Hours		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30 to 9:30	Miles Amphi- theater	Surgery Prof. Matas	Surgery Prof. Gessner	Dis. of Children Dr. DeBuy's and Assistants Recitations	Medicine Prof. Guthrie Prof. Lemann	Dis. of Children Dr. DeBuy's and Assistants Recitations	Gynecology Prof. Lewis
9:30 to 10:45	I HOSPITAL & OUT CLINICS	Surgery Prof. Smyth Dr. Maes, Dr. Allen	Minor Surgery Dr. Sexton	Surgery Prof. Smyth Dr. Maes, Dr. Allen	Minor Surgery Dr. Sexton	Surgery Prof. Smyth Dr. Maes, Dr. Allen	Minor Surgery Dr. Sexton
	II	Gynecology Prof. Clark	Genito-urinary & Venereal Diseases Prof. Hume	Gynecology Prof. Clark	Genito-urinary & Venereal Diseases Prof. Hume	Gynecology Prof. Clark	Genito-urinary & Venereal Diseases Prof. Hume
	III	Clinical Medicine Prof. Guthrie	Dis. of Children Touro Infirmary Dr. DeBuy's Charity Hospital Dr. Wilson	Clinical Medicine Prof. Guthrie	Dis. of Children Touro Infirmary Dr. DeBuy's Charity Hospital Dr. Wilson	Clinical Medicine Prof. Guthrie	Dis. of Children Touro Infirmary Dr. DeBuy's Charity Hospital Dr. Wilson
	IV	Pathology Prof. Duval Clin. Obstet. and Clin. Gynecology Prof. Miller	Clinical Medicine Prof. Lemann	Pathology Prof. Duval Clin. Obstet. and Clin. Gynecology Prof. Miller	Clinical Medicine Prof. Lemann	Pathology Prof. Duval Clin. Obstet. and Clin. Gynecology Prof. Miller	Clinical Medicine Prof. Lemann
	N. B.—Classes I., II., III and IV interchange teachers	Nov. 27, Jan. 29 and Mar. 25.					
		Trop. Med. and Hygiene Prof. Wellman	Obstetrics Prof. Miller	Surgery Prof. Matas (A amphitheater)	Medical Quiz Dr. Eshleman Dr. Simon Dr. Lyons	Therapeutics Prof. Halley Prof. Guthrie	Trop. Med. and Hygiene Prof. Wellman Dis. of the Skin Prof. Dyer Dis. of the Eye Prof. Feingold
11 to 12		Medical Quiz Dr. Eshleman Dr. Simon Dr. Lyons	Surgery Prof. Matas	Surgery Prof. Matas	Dr. Eshleman Dr. Simon Dr. Lyons	Memorial Laboratory of Topographical Anatomy Prof. Bayon and Assistants	Surgery Prof. Matas (Amphitheater)
12 to 1		Gynecology Prof. Clark	Surgery Prof. Matas	Surgery Prof. Matas	2:30 to 4:30—Richardson Memorial Laboratory of Topographical Anatomy Prof. Bayon and Assistants	Therapeutics Prof. Halley Prof. Guthrie	Sections I & II and Sections III & IV
2 to 4:30		2 to 4—Laboratory of Pathological Anatomy Dr. Courte and Assistants Sections I and II					
		2:30 to 4:30—Laboratory of Clinical Medicine Prof. Bass and Assistants Sections III and IV					
		Laboratory of Hygiene and Tropical Medicine Prof. Wellman—Profs. Weis and Bass					
		All schedules subject to revision.					

Fourth Year—Order of Lectures, Clinics, Laboratory Exercises, Etc.—Session 1911-12

Hours	CLINICAL CLASSES	HOSPITAL AND OUT CLINICS	DIVISIONS A AND B EXCHANGE JANUARY 30	A	B	V	VI
8:30 to 9:30				9:30 to 10:45			

Monday		Tuesday	Wednesday	Thursday	Friday	Saturday
Medicine Prof. Elliott	Medicine Prof. Elliott	Tropical Medicine Prof. Wellman	Medicine Prof. Elliott	Medicine Prof. Elliott	Medicine Prof. Elliott	
Medicine Prof. Bel	Dis. of the Skin Dr. Menage	Medicine Prof. Bel	Dis. of the Skin Dr. Menage	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Medicine Prof. Bel	Gynecology Prof. Lewis (Amphitheater)
Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Drs. Jones & Eustis Touro Infirmary Dr. Esleman	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Drs. Jones & Eustis Touro Infirmary Dr. Esleman	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	
Surgery Prof. Matas (Amphitheater)	Surgery Prof. Gessner (Amphitheater)	Dis. of the Eye Prof. Feingold (Amphitheater)	Prescription Writing Dr. Bethea	Dis. of Nervous System Prof. Archinard	Medicine Prof. Elliott	Medicine Prof. Elliott
Dis. of Nervous System Prof. Archinard	Medicine Prof. Elliott	Dis. of the Skin Prof. Dyer	Medicine Prof. Elliott	Dis. of the Skin Prof. Dyer	Medicine Prof. Elliott	Dis. of the Skin Prof. Dyer
Medicine Prof. Bel	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Medicine Prof. Bel	Medicine Prof. Elliott	Medicine Prof. Bel	Medicine Prof. Elliott	Medicine Prof. Elliott
Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Drs. Jones & Eustis Touro Infirmary Dr. Esleman	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Drs. Jones & Eustis Touro Infirmary Dr. Esleman	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Dis. of Children Touro Infirmary Prof. Butterworth Charity Hospital	Dis. of the Skin Prof. Dyer
Surgery Prof. Matas (Delgado Memo'l)	Dis. Bar, Nose and Throat Prof. Landfried	Surgery Prof. Gessner (Delgado Memo'l)	Dis. Ear, Nose and Throat Prof. Landfried	Orthopedics & Surg Dis. of Children Prof. Fenner	Surgery Dr. Souchon Dr. Perkins	Surgery Dr. Souchon Dr. Perkins
Orthopedics & Surg Dis. of Children Prof. Fenner	Obstetrics and Gynecology Prof. Lewis	Dis. of the Eye Prof. Feingold	Dis. of the Eye Prof. Feingold	Orthopedics & Surg Dis. of Children Prof. Fenner	Obstetrics and Gynecology Prof. Lewis	Obstetrics and Gynecology Prof. Lewis

Fourth Year—[Continued]

11 to 12	Dis. of the Skin Prof. Dyer	Medicine Prof. Bel Pediatrics Prof. Butterworth	Medicine Prof. Elliott (Amphitheater)	Surgery Prof. Matas (Amphitheater)	Therapeutics Prof. Halsey Prof. Guthrie	Surgery Prof. Matas (Amphitheater)
12 to 1	Obstetrics Prof. Lewis	Dis. of the Ear, Nose and Throat Prof. Landried	Obstetrics Prof. Lewis	Regional Surgery Prof. Matas	Gynecology Prof. Lewis	Orthopedics & Surg. Dis. of Children Prof. Fanner
2 to 3	Medicine Prof. Elliott and Staff	Trop. Med., and Hygiene Prof. Wellman and Staff	Dis. of the Eye Prof. Feingold	Pediatrics Prof. Butterworth	Medical Jurisprudence Prof. Metz	Classes I, II, III 3 to 4
3 to 5				Therapeutics Prof. Halsey Prof. Guthrie	4 to 5 Laboratory of Clinical Medicine Prof. Bass	N. B.—Operative Surgery Classes: Sec. IV, V, VI, Oct. 2, to Jan. 27 Sec. I, II, III, Jan. 29, to May 20
				Classes IV, V, VI Prof. Gessner and Assistants	Classes IV, V, VI 3 to 5 Laboratory of Pathology	

N. B.—Instruction indicated in **bold type** at Hutchinson Memorial, 1551 Canal Street. At Touro Infirmary as indicated.
All other exercises at Charity Hospital.

DISTRIBUTION OF INSTRUCTION*

SESSION 1911-12

	Laboratory	Lectures and Recitations	Amphitheater	Clinics	Totals	Grand Totals
Anatomy:						
Histology and Neurology.....	255	75			330	
Gross and Topographic Anatomy.....	600	30			630	960
Chemistry and Physiology:						
Inorganic and Organic Chemistry.....	90	120			210	
Physiological Chemistry.....	180				180	
Physiology.....	180	120			300	690
Pharmacology and Therapeutics:						
Materia Medica, Pharmacy and Pharmacology.....	45	105			150	
Therapeutics and Prescription Writing.....		75	30		105	255
Pathology and Bacteriology:						
Bacteriology.....	90	30			120	
Pathology.....	274	60			334	454
Tropical Medicine and Hygiene:	45	15			60	60
Medical Jurisprudence:		30			30	30
Internal Medicine:						
Physical Diagnosis.....	45	30			75	
Internal Medicine.....		90	75	180	345	
Laboratory of Clinical Medicine.....	180				180	
Pediatrics.....		120	15	58	193	
Diseases of the Nervous System.....		5		20	25	818
Surgery:						
Operative Surgery.....	90				90	
Minor Surgery.....	45	15			60	
General Surgery.....		90	165	104	359	
Genito-Urinary Surgery.....		30		20	50	
Orthopedics.....		30		20	50	
Diseases of the Skin.....		55		30	85	
Diseases of the Eye.....		35	15	20	70	
Diseases of Ear, Nose and Throat.....		30		20	50	814
Obstetrics and Gynecology:		150	75	62	287	287
	2119	1340	375	534	4368	4368

* Subject to revision.

REMOVAL OF CONDITIONS

Students of the first three years who have attended any session and failed to pass satisfactorily the examinations required for that session, and students from other colleges who may be conditioned at entrance, may stand the examinations for the removal of such conditions, at the Fall examinations held for that purpose, between September 20 and 28, and before the regular term opens.

Any student carrying conditions in any *three or more* branches *at the end of any year*, must remove all but two of these conditions at the following Fall examinations before he will be permitted to pursue the succeeding year's work.

**ALL STUDENTS BEFORE ENTERING THE FOURTH YEAR
MUST REMOVE ALL CONDITIONS PREVIOUSLY ESTABLISHED
AGAINST THEM, OTHERWISE THEY WILL NOT BE PERMITTED
TO APPLY FOR GRADUATION.**

Students may enter the fourth year with not more than two conditions, but they must register as partial students and will not be permitted to apply for graduation.

SCHEDULE OF CONDITION EXAMINATIONS

FALL OF 1912

9-11 A. M.

1-3 P. M.

September

Friday	20	Medicine	Obstetrics and Gynecology.
Saturday	21	Surgery	Genito-Urinary and Venereal Dis.
Monday	23	Skin Diseases. Hygiene.	Clinical Surgery and Dis. of Children.
Tuesday	24	Clinical Medicine. Pathology and Bacteriology.	
Wednesday	25	Anatomy	Histology
Thursday	26	Organology and Neurology.	Physiology.
Friday	27	Chemistry	Minor Surgery.
Saturday	28	Physical Diagnosis. Mat. Medica and Pharmacology.	

COLLEGES RECOGNIZED FOR ADVANCED STANDING

Students from other Medical Colleges applying for admission to the Medical Department of the Tulane University of Louisiana will be required to satisfy the entrance requirements of this Department and to present authentic evidence of having passed the branches of any one or all of the first three years, *as required at this institution*, otherwise they will be required to undergo entrance examinations on these branches as declared in this announcement.

Students from other Medical Colleges must submit evidence of entrance credits showing not less than the requirements at Tulane at the time they began the study of Medicine, as follows:

For the class of 1913—A four year high school diploma with certificate showing fourteen and a half units of education.

For the class of 1914—The same and in addition one year of Biology, Chemistry, Physics and one modern language other than English.

For the class of 1915 and after—See Requirements for Admission.

EXTERN SERVICE AT CHARITY HOSPITAL AND TOURO INFIRMARY

During the summer months students who have satisfactorily completed their second and third years and who have registered for the next session may receive appointments as externs on recommendation of the Faculty.

SUMMER SCHOOL OF MEDICINE

For several years the Medical Department of the Tulane University of Louisiana has provided instruction for students of this department, for intending students from other colleges and for graduates in medicine in the laboratory and clinical branches embraced in the teaching divisions of the department.

While a considerable part of the work of this school relates to the subjects and courses covered in the regular curriculum, and is intended for purposes of review, the Summer School has always offered advanced work, including research, for students and physicians desiring such.

All students in the Summer School are required to register at the office of the Dean of the Tulane Medical Department, at the Hutchinson Memorial, No. 1551 Canal Street.

The registration fee for each student is \$5. This fee will entitle each matriculant to visit the Charity Hospital and its clinics, and will also register the student for the regular college term, beginning September 30, 1912. Due notice is required, stating the intention of the student to take advantage of this double registration for one fee. **No student will be so registered for the regular term without such notice.**

The fees and detailed information for individual courses of the summer school are printed in the regular **Announcement of the Summer School of Medicine** (sent on request).

While the summer courses offered in this school are intended for review and advanced work, credit will be given wherever the work in any one department may justify it, and upon the recommendation of the head of the department in which the instruction is given.

No examinations are permitted in the Summer School which can apply to the regular curriculum for the coming year. Final examinations in all branches are given during the regular session.

Students from other schools with entrance conditions and conditioned students in the Medical Department of Tulane may satisfy their conditions by courses in the Summer School covering deficiencies, and may be examined for such conditions by the heads of departments, who may pass upon the same at the conclusion of the summer courses. Grades obtained in such examinations will be duly credited.

The Summer School begins annually the first Monday after commencement.

REQUIREMENTS FOR GRADUATION

Every candidate for graduation must be of good moral character, which includes good conduct while a student of the Medical Department, must have attained the age of twenty-one years, and must have complied with all the educational requirements.

He must have attended, in a regular and reputable medical college at least 80 per cent. of each of four full year courses, of not less than thirty weeks each in four separate years; and the last of these courses must have been in this institution.

Candidates for graduation must have taken (1) two annual courses of clinical medicine; (2) the required courses of practical anatomy, including the various laboratories; (3) two courses in a chemical laboratory: one of organic chemistry and one of physiological and medical chemistry; (4) prescribed laboratory courses of histology, physiology and of pathology, bacteriology, and clinical medicine and of tropical medicine and hygiene; (5) one course in the laboratory of pharmacology; and (6) one course in a laboratory of operative surgery. They must submit evidence of satisfactory attendance and knowledge of all these laboratory courses.

Every candidate for graduation must have paid all college dues, including the graduation fee, and must pass satisfactory examinations before the members of the faculty on all branches scheduled in the years of his attendance.

A candidate for graduation, who fails to pass satisfactory final examinations after two annual trials, will not be examined again. Rejected candidates are required to repeat the entire fourth year.

ATTENDANCE ON MORE THAN FOUR ANNUAL COURSES

Students who have attended and paid for all of the full required courses, the last of which was in this institution, are thereafter entitled to attend the lectures and the hospitals upon payment of matriculation and laboratory fees.

TABLE OF FEES—SESSION 1911-1912

	Matriculation	Athletic Fee	Dissecting Material	Breakage Fee	Tuition	Graduation Fee	Totals
Preliminary Year	\$5	\$5	—	\$10	\$100		\$120
Regular Course:							
First Year	\$5	\$5	\$10	\$10	\$150		\$180
Second Year	5	5	5	15	150		180
Third Year	5		5	10	160		180
Fourth Year	5			10	165	\$30	210
	\$20	\$10	\$20	\$45	\$625	\$30	\$750

Considering the exceptional advantages for practical instruction in hospital and laboratories and the constant care and labor bestowed upon the pupils, the charges are as low as are compatible with the superior advantages given.

The Faculty reserves the right to increase the above fees for any year of the four-year course after the session of 1911-12.

All fees are payable on admission except the graduation fee of \$30, which is not accepted earlier than January 1, nor later than March 1. Ten dollars of this fee will be retained in the case of candidates for graduation who may fail to be graduated, or who may withdraw application after final examinations.

For the accommodation of students, payment of fees may be made in two instalments, one-half at entrance and one-half January 15. For such accommodation a delinquent fee of two dollars will be added to the second payment.

MATRICULATION FEE

Every person, whether student or graduate, admitted to the privileges of this department, must pay a matriculation or registration fee of \$5 for every session or part of session he may attend; and he will not be entitled to admission to either College or Hospital until registered.

ATHLETIC FEE

An athletic fee of \$5 will be charged all students in the first two years, for the services of physical director, use of athletic facilities, etc.

BREAKAGE FEES

A breakage fee of \$5 must be deposited for each course in the laboratories of histology, chemistry, physiology, pharmacology, pathology and bacteriology, hygiene and clinical medicine, to reimburse for breakage and needless injuries inflicted on the laboratories and their contents. Any unused part of such fee will be refunded on proper demand at the end of each session, and before the beginning of the next session.

FEES FOR GRADUATES

Graduates of this College and all medical students who have paid for all of the required full courses, the last of which was in this institution, are thereafter entitled to attend the lectures and the hospital without charge for the professors' fees, but they will be charged the matriculation fee and the fees for all laboratory courses they may voluntarily attend.

The fees for regular laboratory courses taken apart from regular courses are uniformly fixed at \$25. Special laboratory courses, experimental or research, may be arranged in conjunction with regular courses, at special rates.

Students who do not attend full courses, but only partial or special courses, must pay for the tickets of the professors whom they may attend, \$20 each.

Graduates of other recognized medical colleges, who are not candidates for the M. D. degree of this college, must pay, in order to attend all lectures and the hospital during a first session, the annual matriculation fee, \$5, and an additional tuition fee of \$100. For any regular laboratory course taken the additional fee of \$25 will be charged. For any subsequent session the \$100 fee is not charged. If candidates for the M. D. degree, such student physicians must pay the regular fees.

Every graduate of this College must have passed the examinations and have fulfilled the requirements of the fourth year, must have attended all of the laboratory courses required and must have paid the graduation fee, \$30.

REFUND OF FEES

Students who may withdraw for satisfactory reasons during the session and before March 15, will be refunded the unused balance of the fees for the session. *Prompt written notice at time of withdrawal is required to make this effective.* No refund will be made after March 15.

OTHER ANNOUNCEMENTS

State Board Examinations. The Louisiana State Board has announced that, beginning with the May-June 1912 examination, all students of *Class A* colleges, completing the second or third year, and being certified by the proper authorities as having finished the required courses in the primary branches of Anatomy, Chemistry and Physiology, will be permitted to take the Board examinations on these subjects, and if successful these examinations will be credited towards final licensure.

Tulane Graduates Eligible to Fellowship in the Royal College of Surgeons of England, and the Royal College of Physicians of London. Official notice has been given the Medical Department that its graduates will be received for fellowship examinations.

PRELIMINARY COURSE FOR INTENDING MEDICAL STUDENTS (NOT A PART OF THE REGULAR COURSE FOR THE M. D. DEGREE).

COURSES OF INSTRUCTION

BIOLOGY

ASSOCIATE PROFESSOR GEORGE E. BEVER
Physics Building

General Biology. (*Required*).

The fundamental laws and principles of nature, the origin and development of organic forms, and the factors of evolution are discussed. Study of types, from the simplest to the most complex, is then taken up, emphasis being laid upon the tracing of life-histories and the evolution from type to type. The first term is devoted to Botany, the second to Zoology. The course concludes with comparative vertebrate morphology and man's position in the system.

Campbell, *The Evolution of Plants*; Parker and Haswell, *Manual of Zoology*.

Three hours a week.

Biological Laboratory. (*Required*).

Preliminary instruction is given in laboratory methods and the use of the compound microscope. The more important forms discussed in text and lecture are then studied in detail.

There will be no text-book; guide sheets outlining the work will be issued by the instructor.

Two periods a week.

Embryology. (*Optional*).

An introduction to the processes of development in plants and animals. The course is comparative throughout and presents embryology in its function of determining phylogeny.

Text-book: Foster and Balfour, *Elements of Embryology*.

Three hours a week. First Term.

Embryological Laboratory.

The student will be required to follow and explain in detail the ontogeny of type specimens of plants and animals.

Two periods a week.

Entomology, Bacteriology, and Parasitology. (Optional).

The subjects in this course are especially adapted to students intending to enter the medical profession. In the first part the structure and life histories of all orders of insects which may or do enter into direct relation with man or animals by their agency in disease transmission are especially studied. The second part, Bacteriology, consists of a comprehensive course of lectures on bacterial life and development. The third part, Parasitology, is devoted to the study of the life history of animal parasites.

Three hours a week.

Abbott, *Principles of Bacteriology*; Jordan, *General Bacteriology*.

Bacteriological Laboratory. (Optional).

In the laboratory the student will be taught entomological dissection, the preparation of microtome material, cleaning and sterilization of bacteriological glassware, the preparation of culture media, culture and methods of staining bacteria, etc.

Two periods a week.

Archinard, *Bacteriology*.

BOTANY (*Required*).

PROFESSOR COCKS

The object of this course is to prepare the student for undertaking that part of *materia medica* which relates to vegetable drugs.

The course in botany will include: (1) A consideration of the distinguishing characters of main groups of plants from the highest to the lowest. (2) The anatomy or outer structure of flowering plants. (3) The histology or inner structure of the flowering plants, including the cell contents. (4) A classification of the flowering plants yielding drugs and other products. (5) The subject of the cultivation of medicinal plants.

The lectures are illustrated with the projection lantern.

CHEMISTRY (*Required*).

PROFESSOR A. L. METZ

PROFESSOR B. P. CALDWELL

PROFESSOR L. W. WILKINSON MESSRS. MOSELEY AND FERNANDEZ

Richardson Chemistry Building.

General Chemistry.

Lectures, demonstrations, and recitations, involving general principles, laws of chemical combination, and a description of the elements and their important compounds.

Remsen, *College Chemistry*.

Three hours a week.

General Chemistry Laboratory.

Introductory practice for the purpose of familiarizing students with the appliances, methods of manipulation, and processes of the laboratory.

Smith and Hale, *Laboratory Outlines of General Chemistry*.

Two periods a week. First term.

Elementary Qualitative Analysis. Second term.

Noyes, *Qualitative Analysis*.

Two periods a week.

PHYSICS (Required).

PROFESSOR J. H. CLO

MR. A. F. HEBERT

Physics Building.

Experimental Physics. (Required).

A descriptive course, abundantly illustrated by experiments, and covering in an elementary way the whole range of physics.

Lectures and recitations, three hours a week; laboratory, two to three hours, reports being required in addition.

ROMANCE LANGUAGES

PROFESSOR ALCEÉ FORTIER

MR. FORTIER

Gibson Hall, Room 31.

FRENCH

Elementary French. Grammar and Reading.

Frazer and Squair, *French Grammar*; Labiche and Martin, *Voyage de M. Perrichon*; De Vigny, *Le Cachet Rouge*; Fortier, *Précis de l'Histoire de France*; Fortier, *Sept. Grands Auteurs du XIXe Siècle*.

Three hours a week.

SPANISH

Elementary Spanish.

Grammar; class room reading; private reading of modern plays and stories.

Giese, *Spanish Grammar and Reader*; Schilling's *Don Basilio*; Morrison's, *Tres Comedias Modernas*; Moratín, *El Sí de las Niñas*.

Three hours a week.

GERMAN

ASSOCIATE PROFESSOR J. C. RANSMEIER

MR. J. W. HOPKINS

Gibson Hall, Room 33.

Elementary German.

Pronunciation, grammar, and exercises. Easy standard prose. The object of this course is to teach the student the fundamental principles of grammar, to write easy sentences, to write simple prose, and to understand an easy form of the spoken language.

Three hours a week.

RANSMEIER, HOPKINS

(N. B. The student is required to take either German, French or Spanish).

For courses in **Osteology** (optional) and **Histology** (optional) see **Anatomy** (p. 42) under **Regular Courses of Instruction**.

GENERAL INFORMATION

Information about houses for boarding and lodging may be obtained from the Registrar or Clerk. The price usually paid by students varies from \$18 to \$25 per month. A list of desirable boarding houses is prepared shortly before the opening of the session and may be consulted by students on their arrival at the college.

Students in the first two years who are non-residents will be required to reside in the dormitories on the Campus unless especially excused by the Dean of the Medical Department.

Applications for dormitory rooms should be made as early as possible, before the term opens, to the Secretary, Gibson Hall, Tulane University. Application should be accompanied by a deposit of five dollars to secure accommodation.

On request to the Dean's office parents or guardians will be furnished with students' records, *at the end of each session*.

Students receiving remittances from home are advised to obtain them in checks on New Orleans banks or in Post Office or Express money orders.

Correspondence intended for students of this department in the first and second years should be addressed "Richardson Memorial, Tulane Campus," Station 20, New Orleans, La.; for students of third and fourth years, "Hutchinson Memorial", 1551 Canal Street, or P. O. Drawer 261, New Orleans, La.

For any additional information address:

DR. ISADORE DYER, DEAN, MEDICAL DEPARTMENT,
THE TULANE UNIVERSITY OF LOUISIANA,
P. O. DRAWER 261, NEW ORLEANS, LA.

REGULAR COURSES OF INSTRUCTION

DEPARTMENT OF ANATOMY

PROFESSOR IRVING HARDESTY, A. B., Ph. D. (Anatomy, Histology, etc.)

ASSOCIATE PROFESSOR ROBERT BENNETT BEAN, A. B., M. D.

ASSOCIATE PROFESSOR HENRY BAYON, A. M., M. D.

Dr. Marion Herbert McGuire, Instructor in Anatomy.

Mr. H. Hays Bullard, Instructor in Anatomy.

Dr. Charles Daniel Cupp, Instructor in Anatomy.

Mr. Max Mayo Miller, Assistant in Anatomy.

Mr. Herbert Nathan Thomas Nicholls, Assistant in Anatomy.

Mr. John William Faulk, Student-Assistant in Anatomy.

Mr. Henry Lawrence Gardiner, Student Assistant in Anatomy.

Mr. Frank Linstaedt, Technical Assistant in Anatomy.

LABORATORIES AND MUSEUM OF ANATOMY

The work in this department covers both Gross and Microscopic Anatomy. The Laboratories for both divisions of the work and the Museum of Anatomy are in the Richard-



SOUCHON MUSEUM OF ANATOMY

son Memorial Building. The laboratories are commodious, especially adapted and well equipped for the work and more equipment is being added. The museum contains a large collection of actual dissections made by the Curator of the Museum, Professor *Emeritus* Edmond Souclion, who devotes his time gratis to the Medical Department and who has made this remarkable and useful exhibition of anatomical specimens.

GROSS OR SYSTEMATIC HUMAN ANATOMY

The courses in Gross Anatomy are offered in practical work almost entirely. Independent work on the part of the student is encouraged and stimulated as far as possible. There are no formal lectures accompanying dissection. Short laboratory talks and explanatory demonstrations will be given to groups of students in the dissecting room from time to time as occasion may require and the student at the table is subject to questions aimed at testing the thoroughness of his work. Short conferences and quizzes are held at intervals with sections of the class. Every effort is made to induce the student to acquire actual knowledge of the construction of the body, visual images rather than word pictures of the various structures and their interrelationships. Aid in grasping topographical relations will be afforded by models, wet preparations and serial sections of the body and, after the required dissections are completed, a shorter course in Topographical Anatomy will be offered as a means of summarizing and systematizing the entire work.

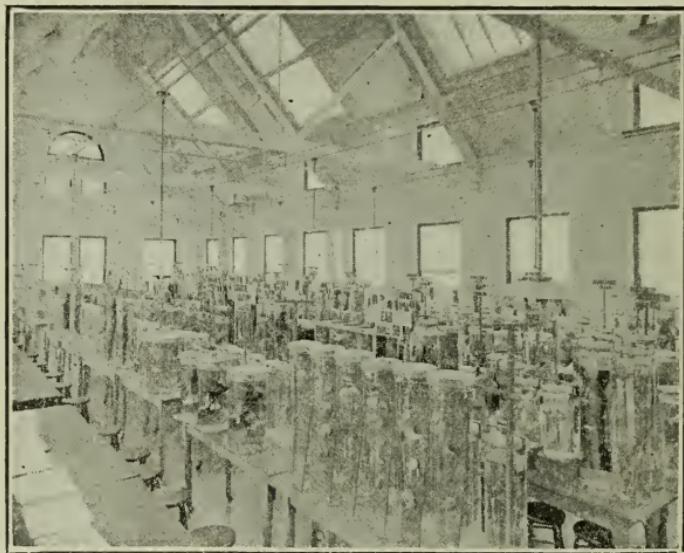
After the necessary work upon the entire body by the group of students to which it is assigned, the body is divided into the usual parts which are, in turn, assigned for complete dissection. Formal quizzes are given only at the completion of the dissection of a part assigned the student. The subject of Osteology and Arthrology is offered, accompanying dissection, during the first year as both a laboratory and quiz course, at the end of which the student is given a formal examination covering the subject. At the completion of the course in Topographical Anatomy, an examination is given covering the entire anatomy of the body.

REQUIRED COURSES

The work in Gross Anatomy falls into the following divisions:

1. **Osteology and Arthrology.** (Prof. Bean and Assistants). Students are provided with bones which they may take to their rooms. Accurate drawings of the typical bones will be required, which must

be fully labeled and handed in for correction. During the first term of the first year the class will meet twice a week in laboratory and lecture room.



LABORATORY OF ANATOMY

2. Arm and Thorax. (Prof. Bean and Assistants.) 150 hours during the first year.

3. Head and Neck. (Prof. Bean and Assistants.) 150 hours during the first year.

4. Leg, Pelvis and Abdominal Viscera. (Prof. Bean and Assistants.) 150 hours during the first year.

5. Topographical and Applied Anatomy. (Prof. Bayon and Dr. Cupp.) The intact body, serial sections of the body, models and special dissections will be used in this course with the special intent to enable the student to become more familiar with structural interrelations and to assemble and systematize information obtained in the preceding dissections. Sketches of the sections are required, labeled as to locality and the names of the structures represented, and, from the sections and sketches, the student is asked to construct a projection of the head and trunk, with the principal organs in position. Open to students who have satisfactorily dissected the entire body. 6 hours one term of second year and two laboratory periods (4 hours) one term of third year.

**MICROSCOPIC
ANATOMY**

In this work the various tissues and organs of the body are studied from both the embryological and anatomical points of view, emphasizing their differentiation and elaboration from the developmental into the adult form and their structural peculiarities and gradations. In order to bridge the usual gap between gross and microscopic anatomy, the study of a tissue or organ is frequently begun with the examination of material in the fresh state, using teasing methods and free-hand sections. The more detailed studies are made from specimens prepared by methods designed to show their distinguishing microscopic features. The routine sections are prepared by the Technical Assistant of the department and are only mounted by the student. A small experience is afforded in the use of technical methods but not enough to thoroughly familiarize the student with the details of the different methods employed in the preparation of tissues for study. Drawings of the preparations under the microscope are required and, wherever possible, from preparations of human material. On the completion of a group of closely related structures, the student is required to hand in his drawings covering that group, neatly mounted in correct sequence and fully labeled as to the subject and detailed structures shown. The drawings are criticised and returned.

6. Histology. (Professor Hardesty and Assistants). Here is considered the anatomy of the cell, its varieties of form, the processes of its proliferation, and its differentiation into specialized types. Then follows the detailed study of the four fundamental tissues, their varieties as composed of cells and cell products and as derived from one or the other of the primary germ layers. First year, two laboratory periods (6 hours) and two lectures per week for first term.

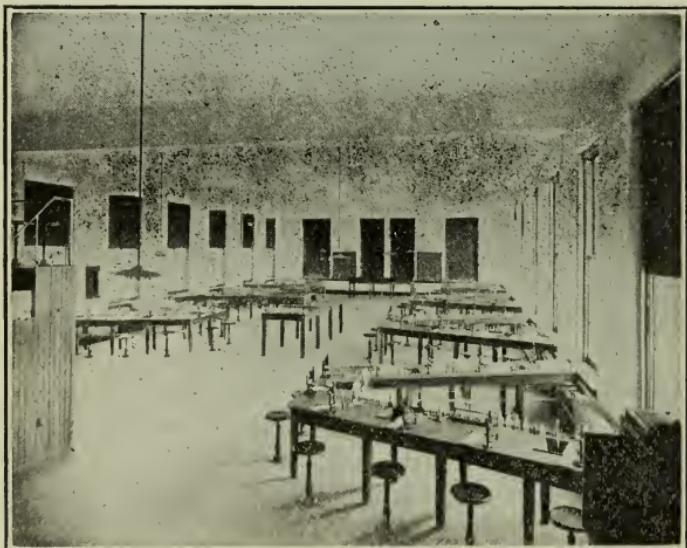
7. Microscopic Organology. (Professor Hardesty and Assistants) The various organs are considered as to their form and the arrangement, number and variety of the fundamental tissues composing them, and as to their structural relations in the apparatuses they comprise. The studies are usually begun with the observation *in situ* of a group of organs comprising an apparatus or system. First year, two laboratory periods (6 hours) and two lectures per week for second term. A satisfactory knowledge of Histology (course 6) is prerequisite to this course.

8. Neurology. (Professor Hardesty and Assistants). This course is especially devoted to the macroscopic and microscopic architecture of the central nervous system and organs of special sense. The

neurone, neuroepithelium etc., studied in Histology, are considered as they take part in the construction of the nervous apparatus with especial effort toward tracing the origin, termination, course and arrangement of the different pathways of nerve impulses. Attention is given to the development and growth of the nervous system. Second year, two laboratory periods (6 hours) and two lectures per week for first term.

Text-Books: *Gross Anatomy*—Piersol; Cunningham (3rd edition); Morris (4th edition); Atlases of Toldt, Spalteholz and Sabotta-McMurrich; Davis' Applied Anatomy; Gray (Spitzka); Cunningham's Manual; Barker's Manual.

Microscopical Anatomy—Piersol; Stohr (Lewis); Bailey; Shafer's Essentials (7th edition); Villiger's Gehirn und Rückenmark; Hardesty's Laboratory Guide; appropriate parts of Quain (11th edition) and Morris (4th edition), and the atlases used in Gross Anatomy.



LABORATORY OF HISTOLOGY.

GRADUATE AND OPTIONAL COURSES

9. Review Course in Gross Anatomy. A study-room course is offered primarily for practitioners of medicine, but also for upper classmen who have completed the required work in dissection. It will consist of the study of museum specimens, wet preparations and

sections of the body in the possession of the Department of Anatomy. No credit toward the degree of Doctor of Medicine is given for this course. Hours may be arranged to suit applicants.

BEAN AND BAYON

10. Microscopic Organology.

Advanced study of the structures comprising the circulatory apparatus, the digestive apparatus, or the urino-genital apparatus, is offered graduate students who wish to become more familiar with these subjects than is usual after taking the routine courses dealing with them, or candidates for the higher degrees who desire to take the major or minor subjects within the Department of Anatomy.

One term. Six hours a week.

HARDESTY

11. Neurology.

Special study of the histology and microscopic and macroscopic architecture of the central nervous apparatus.

One term. Five hours a week.

HARDESTY

12. Special Anatomy of the Auditory and Optic Apparatuses

This course is offered primarily for graduate students, but is elective by others especially interested in the subject and qualified to take it. It will deal with both the gross anatomy and detailed microscopic structure of the parts comprising the two sense organs mentioned and, in addition, will consider their pathways, connections and relationships within the brain.

Hours will be arranged to suit applicants.

One term. Five hours a week.

HARDESTY

13. Advanced Course in Gross Anatomy.

A course offered primarily for graduates in medicine, but may be taken by others who have completed the required work in dissection. It is designed to afford opportunity for a more detailed study of the macroscopic anatomy of any part of the body desired, or for an advanced study of any of the systems of organs comprising a Functional Apparatus. The viewpoint from comparative anatomy will be suggested.

Either term. Hours will be arranged.

BEAN.

14. Racial Anatomy or Physical Anthropology.

The four great geographical groups of mankind, Europeans, Asiatics, Africans, and American Indians, are treated from the standpoint of their morphology and morphological differences. The differences in physical characters are studied in relation to the probable origin of the people, similarities and differences are emphasized, migrations are considered, and theories of heredity are introduced to indicate pre-existing conditions and to predict the probable result of the present

mingling of the races. The breeding out of alien stocks or characters is discussed, the effects of climatic conditions are presented in their various bearings, and the relation of morphology to disease is treated.

This course is best preceded by the regular course of Osteology and the dissection of the human body.

Five hours a week. Second term.

BEAN

RESEARCH IN ANATOMY Advanced students of Anatomy and graduates sufficiently qualified are urged to undertake the investigation of original problems under the direction of the head of the department and members of the staff. Opportunity is given to gain experience in special histological technic and in the construction of papers for publication. Results meritng it will be published. Hours arranged to suit applicants.

DEPARTMENT OF PHYSIOLOGY

PROFESSOR GUSTAV MANN, M. D. (Physiology).

First Assistant in Physiology.

Dr. Ralph Hopkins, Second Assistant in Physiology.

, Third Assistant in Physiology.

SYNOPSIS OF COURSE IN PHYSIOLOGY

quiz-class and students are encouraged to come individually to the professor or his assistants whenever they meet with any difficulty.

The didactic course comprises: (1) **Study of the cell:** functions of the nucleus, centrosomes and cytoplasm; feeding of cells: osmosis and surface tension, secretion and excretion. Micro-chemical reactions; cell-division, fertilization; degenerative changes.

(2) **Chemical Physiology:** Chemistry of simple and complex sugars; of fatty acids and of amino acids and their synthesis into peptides. General consideration of fully formed protoplasm. Essential nature of protein compounds. Changes taking place in a starving animal; necessity of replenishing loss. General laws guiding the amount and nature of food. Organic and inorganic food-constituents and their interrelationship. Methods of determining the intake and the output of the body. Nitrogen and carbon equilibrium,

This course includes both didactic and practical work. In addition to these, there is held each week a

Effect of muscular work on the intake and metabolism of food; effect on secretion of nervous excitability.

(3) **Physical Chemistry:** Surface tension in connection with absorption; relation of mass to surface; partial pressure and gas-tension. Electrolytes and colloids; coagulation.

(4) **Mechanical Physiology:** Movements of alimentary canal and respiratory system; phenomena of circulation in rigid and elastic systems. The locomotor-system; points of gravity etc.

(5) **Physiology of muscle and nerve.**

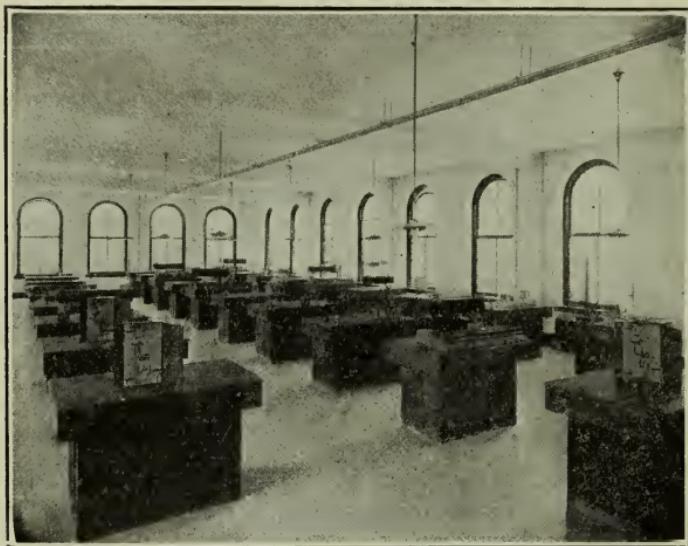
(6) **Central and peripheral nervous systems** considered as reflex-mechanisms.

(7) **Physiology from the Biological point of view:** (a) Alimentary Canal: Ferments and their action on foods; nervous and non-nervous control of glands and of alimentary canal. Immediate and ultimate fate of absorbed food-materials; (b) Respiratory System: Chemical changes; nervous mechanism. External and internal respiration. (c) Circulatory System; Functions of formed and unformed blood and lymph constituents; the quantity of blood in relation to rest of body; vaso-motor changes; (d) Integumentary System: Its relation to respiration, heat-regulation and excretion. Color changes in skin. (e) Symbiosis of Organs: Internal secretion. Chemical and nervous means of interrelating organs. (f) Urinary System: Origin of products excreted. Significance of qualitative and quantitative changes in the urine. (g) Reproductive System: Changes at different ages. Significance of fertilization. Physiology of the fetus and the growing child. (h) Nervous System. Development of mental processes. Significance of education.

In addition to the above subjects dealt with in the didactic course, students will be afforded every facility for making themselves practically acquainted with those data on which the physiologist bases his deductions.

The microscope will be used for the study of living cells, to observe the circulation of the blood in the capillaries of amphibians and mammals, and the effect of the nervous system on circulation; to trace degenerations in lesions of the central nervous system; to observe the changes produced in gland-cells as the result of stimulation; to see dye-stuffs excreted by glands, such as the kidney; to follow up changes produced in marrow as the result of bleeding; in the nervous system as the result of activity. Surface tension phenomena and the effect of iso-tonic and non-isotonic solutions; micro-chemical tests for iron, etc., will also be dealt with.

Each student will further have full opportunities of making experiments in connection with the heart and the circulatory system; the



LABORATORY OF PHYSIOLOGY

nervous system and its effects on muscle and glands; of studying the changes produced in the air we breathe; of learning the methods of examination of the normal eye and throat.

Text-books—Stewart: Manual of Physiology; Halliburton's Handbook of Physiology.

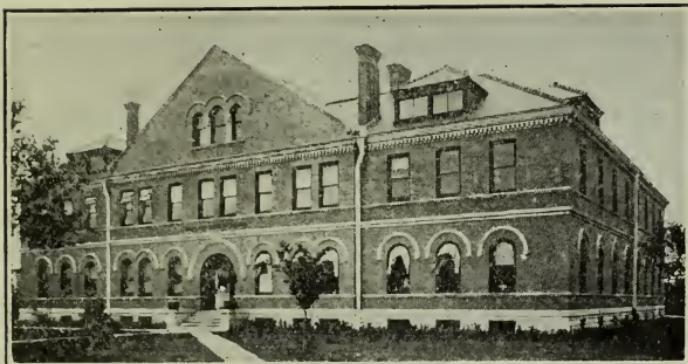
DEPARTMENT OF CHEMISTRY, INCLUDING PHYSICS, TOXICOLOGY AND MEDICAL JURISPRUDENCE

PROFESSOR A. L. METZ, M. Ph., M. D. (Chemistry and Medical Jurisprudence) Head of the Department of Chemistry, Tulane University of Louisiana.

Mr. Rollin Guizot Myers, M. S., Demonstrator and Instructor.

, Assistant Demonstrator.

First Year Inorganic Chemistry—This course will cover the essentials of descriptive inorganic chemistry and its application to general medicine, but particularly to the studies of physiology, pathology, hygiene and toxicology. Four lectures per week during the first term.



RICHARDSON CHEMISTRY BUILDING

Organic Chemistry—This course will deal with the discussion of the theory of the chemical constitution of the carbon compounds; a study of the aliphatic derivatives. The constitution and relationships of leading groups of the carbocyclic compounds.

The carbohydrates, fats and proteins are studied in considerable detail, and the more important facts of chemical physiology and pathology are brought to the attention of the student. Four lectures per week during the second term,

This work in organic chemistry is a proper and necessary introduction to the lecture and laboratory courses in physiological and clinical chemistry of the second year.

Laboratory.—Laboratory instruction will be given students of the first year two and a half hours a day in the second term for three days in the week for a period of sixteen weeks.

The instruction here given is in harmony with the chemical lectures of the first term, and is conducted in such a manner as to secure to the student practical familiarity with material, processes and reactions as these pertain to toxicology, incompatibilities in prescription work, and such subjects of his professional study as will be useful in his subsequent practice.

This course also includes Acidimetry and Alkalimetry with Volumetric Analysis.

Second Year **Physiological Chemistry** — This course reviews briefly the facts and theories of organic chemistry; and embraces the study of the chemical relations of the starches, the sugars, the fats and the proteins, and the chemical changes occurring in plants and animals; the chemistry of salivary, gastric and intestinal digestion; the chemistry of the bile and blood.

Clinical Chemistry.—This course will include the chemistry of the excretions with special attention to the qualitative and quantitative analysis of stomach contents, urine, feces, milk, etc.

The lectures are devoted mainly to such topics of a general nature as can not well be brought up in the laboratory for direct experimentation and demonstration in the time allowed for the course.

Laboratory Work.—Students of the second year will be given two and a half hours a day for six days in the week for a period of fifteen weeks, in physiological and clinical chemistry.

Every student assigned to the chemical laboratories is fully supplied with all apparatus and chemicals, but there will be a charge for breakage and for unnecessary waste of material.

Medical Jurisprudence In this course the general relations of medicine to law are discussed, and the duties and rights of the medical expert as a witness, and advice given as to how he should conduct himself, with a study of the poisons most commonly needing attention, in their chemical and physiological aspects.

It is projected that hereafter this course shall be extended by special lectures from the teachers in the several departments as their subjects may be related to Legal Medicine.

Examinations are held at the end of the course (*Fourth Year*) and the questions are to be based on the lectures by Professor Metz and the other members of the Faculty.

Text-books—Withaus, Manual of Chemistry, 6th edition; Rockwood, Manual of Physiological Chemistry; Hawk, Physiological Chemistry.

Reference Reading—Hammersten, Physiological Chemistry; Simon's Physiological Chemistry.

Medical Jurisprudence—Reese; Herold; Draper's Legal Medicine.

Reference Reading—Withaus and Becker's Medical Jurisprudence. Peterson and Haines Legal Medicine and Toxicology.

DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

PROFESSOR J. T. HALSEY, M. D., (Pharmacology, Therapeutics and Clinical Medicine).

PROFESSOR J. BIRNEY GUTHRIE. M. D. (Clinical Medicine).
Dr. Ralph Hopkins, Demonstrator of Pharmacology.

Dr. Oscar Walter Bethea, Lecturer and Instructor in Pharmacology
and Materia Medica.

Dr. E. P. A. Ficklen, Assistant in Pharmacology.

Dr. Stanford Chaillé Jamison, Assistant in Pharmacology.

**PHARMACOLOGY
AND THERAPEUTICS**

The work in this department begins in the first term of the second year and continues until the end of the fourth year.

In the second year Materia Medica and Pharmacy, in so far as these subjects seem essential to the medical student, will be taught separately during the first term and in the second term in immediate connection with the courses on Experimental and Systematic Pharmacology.

The hours devoted to this course (45) will be equally divided between lectures and recitations and practical work in the laboratory.

**Systematic
Pharmacology**

(Professor Halsey and Dr. Bethea). This course will consist of about sixty hours of recitations, lectures, and demonstrations on the general principles of pharmacology and on the pharmacology and toxicology of the important and commonly used drugs and poisons. Here too the clinical significance and uses of these drugs will be discussed as far as seems advisable and drills in prescription writing will be held from time to time. Coincident with and in close relation to this course, will be given the course on—

**Experimental
Pharmacology**

(Professor Halsey and Assistants).—The required work in this course will consist of laboratory exercises, in which the students will conduct for themselves a number of experiments illustrating the physiological and toxicological action of a number of the most important drugs. *Further work on experimental pharmacology may be carried on as an optional course by students or others qualified.*

**Non-Pharmacal
Therapy**

(Professor Guthrie).—During the first half of the third year two hours weekly will be devoted to lectures, recitations and demonstrations of these increasingly popular and important therapeutic methods. The course will be illustrated by lantern slides, plates, &c., and by demonstrations of apparatus and methods, and will include massage, exercise, hydrotherapy, the use of heat and cold, hyperemia methods, photo-electro and radiotherapy, and dietetics. In this course chief stress will be laid on the methods of using and modes of action of these

important remedial measures, their special indications being discussed briefly and on broad lines.

Dietetics (Professor Guthrie).—Part of the first half of the third year will be devoted to a consideration of the question of foods from the standpoint of prophylaxis and as applied to feeding the sick. In this course special stress will be laid on the feeding of patients in such diseases as are treated exclusively by special dietetic measures.

Systematic Therapeutics (Professors Halsey and Guthrie).—During the last half of the third year, two hours a week, and during the fourth year two hours a week will be devoted to lectures and recitations on the general and underlying principles of the treatment of various clinical conditions and of the chief diseases. In close connection with this course will be—

Therapeutic Clinics (Professor Halsey and Professor Guthrie) for Fourth year students.

These will be held weekly in the amphitheater of the Charity Hospital, patients being selected especially for their therapeutic interest. They will be chosen as far as is feasible for their relation to subjects treated in the course on systematic therapeutics and will be demonstrated and discussed by teachers and students with especial reference to the care and management of these and similar cases. Whenever the opportunity presents itself cases will be used which permit of demonstration in the amphitheater of special methods of treatment such as stomach or colonic lavage, giving of enemata, inunctions, hypodermic medication, massage, passive or resistance exercises, baths, packs, &c.

Bedside Therapeutics In the ward and out-patient work for fourth year students in the department of internal medicine, especial attention will be given by the various teachers to the too often neglected matter of treatment.

Prescription Writing Besides the usual instruction in this, which is interjected in all the above mentioned courses, a special course of 15 hours on prescription writing will be given by Dr. Bethea to sections of the senior class.

Text-books—*Pharmacology*—Sollman; Cushing, Dixon.

Therapeutics—Forcheimer; Ortner; Reference: *Modern Medicine*; Kelly and Masser.

Dietetics—Friedenwald and Rührah; Berseliet.

Non-Pharmacal Therapy—Reference: Solis Cohen, System of Physiological Therapeutics.

Special—Van Noorden's Nephritis; Van Noorden's Diabetes.

Psychotherapy—Dubois, Psychic Treatment of Nervous Disorders.

DEPARTMENT OF MEDICINE

PROFESSOR JOHN B. ELLIOTT, JR., M. D. (Theory and Practice of Medicine and Clinical Medicine).

PROFESSOR J. T. HALSEY, M. D. (Therapeutics and Clinical Medicine).

PROFESSOR GEORGE S. BEL, M. D. (Clinical Medicine).

PROFESSOR J. BIRNEY GUTHRIE, M. D. (Clinical Medicine).

ASSISTANT PROFESSOR ISAAC I. LEMANN, M. D. (Clinical Medicine).

ASSISTANT PROFESSOR JOSEPH DEUTSCH WEIS (Clinical Medicine)

ASSISTANT PROFESSOR CHARLES CASSIDY BASS (Laboratory of Clinical Medicine.)

LECTURERS AND INSTRUCTORS IN CLINICAL MEDICINE

Dr. C. L. Eshleman	Dr. E. W. Mahler	Dr. H. P. Jones.
Dr. C. A. Wallbillich	Dr. S. K. Simon	Dr. J. E. Landry
Dr. W. H. Harris	Dr. A. C. Eustis	Dr. R. Lyons
Dr. Geo. W. Faivre	Dr. M. E. Brown	Dr. J. C. Cole.
	Dr. E. C. Samuel	

THEORY AND PRACTICE OF MEDICINE

The course of study in internal medicine begins in the first half of the second year.

Second Year. (Prof. Bel, Drs. Mahler, Harris, Wallbillich
Physical Diagnosis and Brown).—Professor Bel gives a systematic lecture course on the elements of physical diagnosis once a week, illustrated by dissections, charts, diagrams, and demonstrations on the normal body. The relations of regional anatomy, physiology, and physics to diagnosis are impressed upon the student, and his knowledge is tested by quizzes at the end of each hour, as well as by his practical work.

The practical course is given in the last fifteen weeks of the second year, three times a week. The class is divided into sections and the members, under the guidance of Professor Bel and his assistants practice all the methods of physical diagnosis of the normal subject. Accurate technic and familiarity with the normal signs are the aims.



CHARITY HOSPITAL BUILDINGS.

Third Year.

Theory and Practice of Medicine

Recitation Course.—(Professors Elliott and Halsey, and Doctors Lyons and Landry). The class is divided into three sections. Lessons are assigned in a standard text-book and the efficiency of study ascertained by a quiz, covering in the course of the year the most important internal diseases. Understanding of the subject is sought, not a mechanical ability to repeat it. A record of work and attendance is kept and used in determining the student's standing.

Diagnostic Clinic

(Professors Guthrie and Leniann). Once a week. In this the clinical phenomena that can be seen will be studied and their value in diagnosis considered. Alterations of size, form and color, position, station, gait, expression, etc., and their causes, will be examined and discussed by members of the class. The clinical manifestations of pathological physiology will be studied, as far as possible. Instructive examples that are adapted to demonstration before a large class will be presented as often as possible.



CHARITY HOSPITAL BUILDINGS

Ward Classes in Clinical Diagnosis (Professors Guthrie and Lemann and Drs. Landry and Lyons) Three times a week; seven weeks. Small sections, subdivided into smaller groups under the charge of the several teachers, practise on patients in the wards all the methods of physical diagnosis and other manipulations necessary in the practical investigation of cases. The students write, draw or plot their findings, as part of the records of their work. They will also demonstrate and explain cases before the class. The main objects are accurate technic and familiarity with the common physical signs. The elements of case-taking will be considered towards the end of the course. The work in the class is wholly practical, collateral reading outside the class hours being required.

Laboratory of Clinical Medicine (Professor Bass and Assistants). In this laboratory the student is taught all the ordinary laboratory work of use in the practice of Medicine and Surgery. The laboratory is under the direction of the Department of Medicine but the clinical laboratory methods of all branches are taught.

The plan of instruction is chiefly practical. The student is made

familiar with the technic and then required to examine and report his findings on a number of unknown specimens. The grades are based largely on these reports. In this way the student does a great deal of actual work, such as he will do when he gets out in practice. An unlimited supply of material is always available from the Charity Hospital and other sources.

Three times a week, two hours each, throughout one-half the session. Each student is provided with a microscope with three lenses (including oil immersion) and mechanical stage. Blood counters and other apparatus are provided as needed, as well as reagents, stains, etc. All the more important specimens of blood, urine, feces, sputum, stomach-contents and other products are examined by the best methods. The material in malarial parasites and protozoa and ova in stools, is especially rich, and all other material is available in large quantities. Drawing and describing of preparations forms an important part of the work, and all technical details used in laboratory diagnosis are thoroughly and practically taught.

Fourth Year.

Didactic Lectures Special subjects in internal medicine will be considered in didactic lectures as follows: Professor Elliott, Infectious Diseases; Professor Weis, Blood Diseases, Tropical Diseases; Professor Lemann, Diabetes, Gout and Obesity; Dr. Eshleman, Arterio Sclerosis, Diseases of Aorta; Dr. Simon, Gastro-Intestinal Diseases.

Clinical Lectures (Professors Elliott and Bel). One hour each week. Patients illustrating the most important diseases will be demonstrated in the amphitheater, the histories taken by members of the class read, the necessary examinations made, and the diagnosis, pathology and treatment discussed. The various diseases will be presented systematically, as far as possible.

Ward Work and Ward Classes (Professors Elliott, Bel, Weis, Halsey, and Drs. Mahler and Harris). In sections of about ten the students will work in the medical wards daily for ten weeks. In the beginning of the daily period students will take histories, examine patients and their secretions and excretions. In the last hour they will make rounds, demonstrate and discuss cases, carry out details of treatment, and familiarize themselves with the daily life of patients sick in bed.

Out-Patient Courses (Drs. Eshleman, Jones and Eustis). Students work in the medical dispensary three hours a week for five weeks, in small sections, assisting in all details of

examination and treatment, thus seeing many examples of chronic and minor ailments.

In both wards and dispensary instrumental methods of examination are cultivated thoroughly.

Cases having relation to other clinics, or to the Department of Pathology, will be shown from the standpoints of the other departments, as far as possible. Many borderline cases of diseases of the stomach, liver and other abdominal organs, of the pleura, etc., are utilized in this way.

Laboratory of Clinical Medicine (Professor Bass and Assistants). Each student

Senior week one-half of the session, and during the same time he is assigned to the medical divisions of the course. Each student is provided with all the apparatus and material necessary for making the laboratory examinations required in general practice of medicine, including blood cultures, Wassermann's reaction, diphtheria throat cultures, etc.

Students are required in this laboratory to make examinations of the blood, feces, urine, sputum, exudates, etc., of the patients assigned to them in the wards of the hospital and of other instructive material brought to the laboratory. This laboratory course is an integral part of the course in medicine and proof of proficiency in the work will be required for graduation.

Text-books—*Internal Medicine*, Osler; Anders. For Reference: Osler's Modern Medicine; Allbutt's System; Von Leube, Special Medical Diagnosis.

Diagnosis—Cabot; Sahli; Hutchinson and Rainey. For laboratory work: Emerson; Simon; Wood; Todd; Sahli; Wilson.

Blood—Cabot; Da Costa.

Tropical Diseases—Manson; Scheube; Mense; Rogers; Deaderick.

Parasitology—Braun.

Lungs—Fowler and Godlee. **Heart**—Colbeck; McKenzie. **Intestines**—Schmidt and Strasburger.

Metabolism—Van Noorden on Diabetes.

Therapeutic Clinic (Professor Halsey). (See under *Therapeutics*).

DISEASES OF THE NERVOUS SYSTEM

PROFESSOR P. E. ARCHINARD, M. D. (Diseases of the Nervous System)

Dr. L. L. Cazenavette, Lecturer on the Medical Uses of Electricity and Clinical Assistant.

Dr. R. M. Van Wart, Lecturer on Nervous Diseases and Clinical Assistant.

DISEASES OF THE NERVOUS SYSTEM

This course consists of three clinical lectures and demonstrations a week in the nervous disease wards of the Charity Hospital and the out-door clinic buildings, and of one hour a week of didactic lecture on the anatomy, etiology and pathology of the subject. The students in the Hospital are brought in close contact with the patients, are required to make examinations themselves, and to take notes and write histories. Periodic examinations and quizzes are held by the professor or one of his assistants. On special days to be assigned by the Professor, some one of the clinical assistants will deliver lectures as follows: Dr. Cazenavette on "Medical Electricity," Dr. Van Wart on "Anatomy and Physiology of the Nervous System,"

Text-books—Starr; Church and Petersen; Dana.

DISEASES OF CHILDREN

PROFESSOR W. W. BUTTERWORTH, M. D. (Diseases of Children).

ASSISTANT PROFESSOR L. R. DEBUVS (Diseases of Children).

Dr. J. Townsend Wolfe, Instructor in Diseases of Children.

Dr. Clark H. Rice, Instructor in Diseases of Children.

Dr. Solon G. Wilson, Instructor in Diseases of Children.

Dr. Robert Alexander Strong, Assistant in Diseases of Children.

Dr. M. S. Picard, Assistant in Diseases of Children.

Dr. Frank James Kinberger, Clinical Assistant in Diseases of Children.

Dr. Ruffin Trousdale Perkins, Clinical Assistant in Diseases of Children

Diseases of Children. The course commences with the third year, is a graded one, and consists of Amphitheater clinics, didactic lectures, class recitations and conferences on case histories, with ward and out-patient clinics.

Third Year. The work of the Junior year will consist in part of two recitations or quiz periods weekly. The class will be divided into four sub-groups. Lessons are assigned in a standard text book; the student's grasp of his reading is ascertain-

ed by "quizzing", and the instructor elucidates and emphasizes the necessary and important parts of the subjects under discussion. For the purpose of applying the knowledge thus gained, students will be assigned to service in the out-door and ward clinics. A sub-group will attend the out-patient service at the Touro Infirmary, and will rotate with another sub-group on service in the wards and out-patient clinics at the Charity Hospital. Students will be graded in their proficiency at each recitation and clinical meeting, and an examination will be held at the end of the term for those failing to show uniform and satisfactory progress during the year. This is a preparatory course intended for fuller development of the clinical and more practical work of the senior year.

Fourth year. Small groups of students are detailed in rotation to the clinical laboratory, and for ward and out-patient service at the Charity Hospital and Touro Infirmary. Patients are assigned to students who take histories, examine, diagnose and prescribe under the supervision of the instructor in charge. Cases are discussed and students are expected to follow and study their patients and report their observations in class conference.

Clinical lectures given in the Charity Hospital Amphitheater will still further serve to bring to the attention of the entire class the many varied and important ailments common to children; these will be illustrated by selected cases taken from the Hospital wards for this purpose.

In the didactic lectures particular attention will be paid to maternal and artificial feeding of infants in health and in diseases and to the various methods of modifying milk, practical demonstrations of which will be given in the laboratory.

The several disturbances of nutrition will be considered and this experience in the wards and clinics will give additional notice to the important subject of nutrition in the infant and young child.

The infectious and contagious diseases common to childhood will be considered in detail.

Conferences on case histories will occupy an important position in the didactic course, and will be so arranged as to cover much of the subject of Pediatrics; these histories necessitate reading, study and the presentation of written discussions of the cases.

The same system of grading students mentioned in connection with the third year work will be followed in the senior year, thus making it possible for the steady worker and consistent student to dispense with a final examination.

Text Books—Holt; Koplik; Carr; Rotch; Taylor and Wells; Cotton; Fisher; Pfaundler; and Schlossmann.

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

PROFESSOR CHARLES W. DUVAL, M. D. (Pathology and Bacteriology.)

Assistant Professor M. J. Couret (Pathological Anatomy).

Dr. Jean V. Cooke, Demonstrator and Instructor of Pathology.

Dr. Wm. H. Harris, Instructor of Bacteriology and Pathology

Dr. John A. Lanford, Instructor in Surgical Pathology.

Dr. M. J. deMahy, Assistant Demonstrator of Pathology.

Dr. A. A. Keller, Assistant Demonstrator in Pathology and Bacteriology.

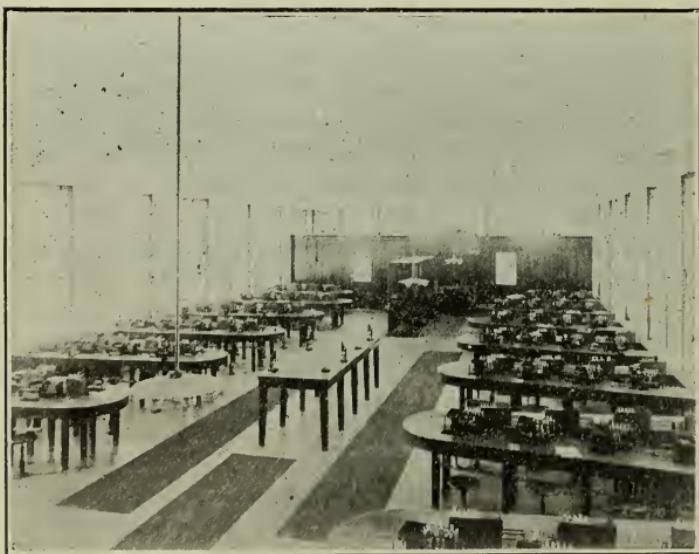
Dr. J. Alston Maxwell, Assistant Demonstrator in Pathology.

Dr. H. W. Wade, Assistant Demonstrator in Pathology.

Dr. E. Bass, Assistant Demonstrator in Surgical Pathology.

Dr. E. P. A. Ficklen, Demonstrator in Pathology.

Dr. S. R. Humphries, Assistant Demonstrator in Bacteriology.



LABORATORY OF PATHOLOGY AND BACTERIOLOGY

Second Year

The lectures and the laboratory courses in bacteriology and microscopic pathology are conducted in the Richardson Memorial (Tulane Campus), where ample facilities are

provided for teaching and research in the laboratory of pathology and bacteriology. The classes are arranged in two divisions, each receiving practical instruction three times a week for three hour periods.

BACTERIOLOGY This course is held in the first term of the second year and precedes the work in microscopic pathology. The first few weeks of instruction comprise bacteriological methods. The student is instructed in the preparation of culture media, the separation of bacteria, handling and transplanting cultures, technic of staining and other methods of observing the bio-chemical features of micro-organisms. Subsequently the work with the more common pathogenic bacteria follows. These are studied in relation to a given organ or tract; for example, the etiological factors in diseases of the respiratory system are considered before passing on to the causal agents in the diseases of another system. A practical, written and oral examination is held at the end of the session.

MICROSCOPIC PATHOLOGY The regular course for laboratory instruction in microscopic pathology is given throughout the second term.

The first weeks of the course are devoted to the study of pathological technic in order that the student may familiarize himself with the various methods of preserving, imbedding, cutting and staining of tissues. Sufficient time is given to the study of methods to insure an intelligent understanding of them. The rest of the session is devoted entirely to instruction in microscopic histo-pathology. During this period microscopic sections already stained and mounted are given out to the students for each day's work.

An essential feature of the course in microscopic pathology is the lantern demonstration of stained and mounted sections. This preliminary illustration before each laboratory period serves to instruct the class as a whole on the important things in each tissue section and how to proceed with their study. Students are required to make drawings of the microscopical specimens given out during the course.

The course of instruction considers first the general subject of inflammation and retrogressive tissue changes, after which the special lesions are taken up systematically and under separate organs or tracts. At the end of the session there is held a written and practical examination in general and special pathology.

Lectures in Pathology and Bacteriology extend over the entire second year.

Third Year Gross Pathology. The instruction of gross Pathology extends over the entire third year of the medical course. The class is divided into small groups of not more

than twelve men each for autopsy work twice a week at the Charity Hospital. This instruction is carried on in connection with clinical teaching. Whenever practical, autopsies will be held at the Hutchinson Memorial, instead of the Hospital, where every facility for holding post-mortems has been provided. Each section of the class is notified when an autopsy is pending and is excused from other work to attend the post-mortem. The division of the class into small sections makes it possible for each student to take part in the autopsy. The men of a given section are assigned different parts; for example, the head to one, the thorax to another, the abdomen to still another, etc., and under the supervision of the Professor of Pathology and his assistants the post-mortem is actually performed by the students. Supplemental to the study of the gross tissue changes, microscopic sections of the fresh tissues are examined together with already stained sections of the particular lesion or lesions found at that autopsy. It is required of every third year student that he perform at least one complete autopsy, turning in his report, both gross and microscopic, before the session is over.

In addition to the autopsy work the class is divided into two sections, each receiving practical instruction in gross pathology twice a week for two hour periods. This course will be given in the laboratory of the Hutchinson Memorial where the third year student is taught gross pathological lesions from fresh post-mortem specimens and carefully preserved Kaiserling preparations, etc. The materials of the course are contained within a collection of preserved specimens and obtained directly from autopsies and the surgical wards of the hospitals.

A written and practical examination on general and special Pathology including autopsy technic will be held at the completion of the course.

**Fourth year
Special Pathology.**

The course will consist chiefly in the use of gross and microscopic preparations of the more important tumors together with the technique of preserving, cutting and staining tissues for diagnostic purposes. In so far as possible tumors and other lesions in which precise diagnosis is necessary will be studied clinically, and the treatment as suggested by histological features discussed. The class will be divided in two sections and the work will extend over the entire fourth year.

Applied and Experimental Pathology (Surgical Pathology) will form the basis of the course which will be taught both in the wards of the

hospitals and in the laboratory at the Hutchinson Memorial. Bacteriological technique, especially the methods of value to the practising physician and surgeon will be considered, such as the preparation of vaccines and their use. Attention will also be paid to the various factors influencing immunity, and the technique and value of serum diagnosis. Special emphasis will be laid upon the methods of procuring bacteriological and pathological material for diagnosis.

A written and practical examination will be held at the end of the fourth year terms.

Text-Books: *Bacteriology*:—Jordan; Hiss; Muir and Richir.
Pathology:—Adami; Delafield and Prudden; Ribbert.

DEPARTMENT OF SURGERY

PROFESSOR RUDOLPH MATAS, M. D. (General, Regional and Clinical Surgery).

PROFESSOR ERASMUS D. FENNER, M. D. (Orthopedic Surgery).

PROFESSOR HERMANN B. GESSNER, M. D. (Operative Surgery in the Miles Laboratory, and Clinical Surgery).

ASSOCIATE PROFESSOR JOHN SMYTH, M. D. (Laboratory of Minor Surgery, and Instructor in Clinical Surgery.)

ASSISTANT PROFESSOR JOSEPH HUME, Venereal and Genito-Urinary Diseases.

Dr. Luther Sexton, Lecturer and Clinical Instructor in Minor Surgery.

Dr. Marion S. Souchon, Instructor in Clinical Surgery.

Dr. William M. Perkins, Instructor in Clinical Surgery.

Dr. Urban Maes, Demonstrator in Operative Surgery and Instructor in Clinical Surgery.

Dr. Carroll W. Allen, Instructor in Clinical Surgery.

Dr. Lewis B. Crawford, First Assistant Demonstrator in Operative Surgery.

Dr. Lucian H. Landry, Second Assistant Demonstrator in Operative Surgery and Clinical Assistant in Surgery.

Dr. E. L. Leckert, Clinical Assistant in Surgery.

Dr. Samuel Logan, Assistant in Venereal and Genito-Urinary Diseases.

Dr. A. M. Caine, Clinical Instructor on Anesthetics.

Dr. Isidore Cohn, Lecturer and Instructor in the Laboratory of Minor Surgery.

Dr. Henry Leidenheimer, Clinical Assistant in Surgery.

In the Hutchinson Laboratory of Surgical Pathology.

Collaborating with the Department of Surgery.

PROFESSOR CHAS. W. DUVAL, M. D. (Surgical Pathology.)

Dr. M. Couret, Assistant in Pathology.

Dr. J. A. Lanford, Instructor in Pathology.

Dr. M. J. DeMahy, Demonstrator in Pathology.

Dr. J. Alston Maxwell, Demonstrator in Pathology.

The division of Surgery is composed of the Departments of Surgery, Clinical Surgery, Orthopedic Surgery, Surgical Pathology, Operative Surgery, Minor Surgery, Genito-Urinary Surgery.

SURGERY Instruction is given by systematic lectures, recitations, lantern demonstrations, clinical demonstrations; by teaching at the bedside, in the wards; in the out-patient departments; in the laboratory; and by monthly written reviews.

In the first two years, a course is given by Professor Smyth assisted by Dr. Cohn, in the laboratory of Minor Surgery at the Richardson Memorial Building, Tulane Campus.

Laboratory of Minor Surgery. This laboratory was first organized and equipped by Professor Matas in 1901 and was designed to give a course of systematic demonstrations and individual exercises in Minor Surgical procedures. The aim of the course will be to prepare the student by manual training and personal experience in the elementary mechanics and fundamental procedures of minor surgery (bandaging; plaster of Paris; liquid glass; proper use of tools in making splints and improvising apparatus, etc).

The student will also be given an insight into the practical side of his professional work, (in keeping with his elementary knowledge of Anatomy and Physiology) by a series of demonstrations on *First Aid* in injuries and accidents, including the methods of transportation and care of the wounded and disabled; the mode of improvising splints, litters, bandages and, in fact, all the elementary instruction that is given to the lay members of the Red Cross Societies throughout the world.

Through the courtesy of the Surgeon General and of the Medical Officers of the U. S. Army stationed at Jackson Barracks, the class is given opportunities each session for the observation of and participation in the litter and ambulance drill of the Hospital Corps of the U. S. Army.

The application of Anatomy to Surgery will be especially considered in an experimental course of fractures and dislocations on the cadaver and by radiographic studies (Fluoroscopic) of the fractures thus obtained. A series of demonstrations on Surgical Applied Physiology will also be given, illustrating the subjects of Shock, Hemorrhage, Anesthetics, Cerebral Compression, Pneumothorax and Artificial Respiration, etc.

Clinical Minor Surgery (Outdoor clinics; ward work; Third Year amphitheater).

General Surgery or Principles of Surgery. (Hospital and Hutchinson Memorial).

The first contact of the student with the sick and injured occurs in this year. All the previous work in this department is intended to prepare the student to appreciate the great opportunities for clinical observation which are now offered him at the Charity Hospital.

The course of Clinical Minor Surgery is conducted by Dr. Luther Sexton assisted by Dr. Leckert, in the out-clinics and in the amphitheater of the Charity Hospital where anesthetics, local and general; bandaging, asepsis and antisepsis, fractures, dressings, etc., are especially taught. This course is supplemented by lectures, quizzes and demonstrations given at the Hutchinson Memorial.

Another division of the class is subdivided into clinical groups guided by Prof. Smyth, and Drs. Maes and Allen who utilize the time allotted to the class by giving instruction at the bedside in diagnosis, prognosis, post-operative treatment and in the proper observations for recording surgical cases. These instructors operate before the class in the Miles Amphitheater or in the Delgado Memorial according to their assignments. Quizzes are a particular feature of this course.

Class Lectures A systematic course of lectures and demonstrations on General Surgery and the Principles of Surgery is given at the Hutchinson Building by Professor Matas on Tuesdays and Wednesdays. Monthly examinations are held throughout the session to review the progress accomplished during the month.

Clinical lectures are given at the Charity Hospital by Professor Matas on Mondays, Wednesdays and Saturdays. Mondays and Saturdays are the chief operating days and operative clinics will be held in the Miles Amphitheater or in the "Matas Operating Room" of the Delgado Memorial. The Thursday clinics will be held in the Miles Amphitheater as hitherto and will be devoted to the exhibition of post-operative results and the diagnosis and prognosis of new cases. The third year class is especially expected to attend this clinic.

Fourth Year **Clinical Surgery** (in the amphitheater and in the wards); **Operative Surgery**.

Regional Surgery. Clinical instruction is given to sections of the class in the wards at the bedside and in the amphitheater by Professors Matas and Gessner and Drs. Perkins and Souchon who will devote special attention to diagnosis, prognosis, the principles of surgical technic, post-operative treatment, etc., as applied to the various regions. The opportunity is given to students to assist in the administration of anesthetics and in the post-operative dressings. A systematic course in regional surgery is given by Professor Matas which is illustrated by lantern slides and the Carman opaque projector. The clinical demonstrations and lectures given in the amphitheater of the hospital on Mondays, Thursdays and Saturdays are especially intended for the benefit of the senior class, with the exception of the Thursday lecture at which both the Junior and Senior classes are expected to be present.

Anesthesia Special instruction and demonstrations in methods of general Anesthesia will be given every week by Dr. Ansel M. Caine, at the Surgical Clinics and before class sections assigned to this division.

Surgical and Experimental Pathology

Four hours a week in the Laboratory of Surgical and Experimental Pathology in the Hutchinson Memorial will be given for the demonstration of fresh surgical specimens, gross and microscopic; the repair of various tissues, wounds, bones, vessels, nerves, tendons, etc.; the specific infections and surgical lesions of the various tissue systems, lymphatics, joints, bones, etc. Surgical lesions of the thyroid, mammary and salivary glands; of the digestive tract; of the urinary and genital tract.

Conjointly with this course, demonstrations will be made by experimentation, lectures and lantern slides, of the different steps in the process of inflammation and repair in the various tissues and organs; the actions of venoms, toxins and chemical poisons upon tissues and their relation to blood destruction, degeneration and necrosis; the removal of the pancreas and the ligation of bile duct, etc., for the production of diabetes, jaundice, etc.; the experimental production of neoplasms in fowls, pigeons and mice, and a comparative study of these with tumors of the same type from the human subject. Special attention will be paid to the discussion of the principles of immunity and their application in the tests for precipitins, agglutinins, hemoly-

sins, opsonins, etc., and the study of complement and its behavior in the Wasserman reaction. The preparation and standardization of vaccines and their application is also considered.

The class will be divided into small groups, each under the direction of a demonstrator, and the students will be required to perform the various experiments. These courses will be conducted conjointly with the course of surgery by Professor Duval and assistants.

TOURO INFIRMARY During the fourth year, sections of the class are regularly assigned to the Surgical Clinics, held at the Touro Infirmary from 8:30 A. M. to 10:45 A. M. The large number, variety and importance of the cases operated upon at the Clinic by Professor Matas, assisted by Professor Gessner and Dr. L. H. Landry and the members of the resident staff, should make these Friday clinics especially attractive to advanced students and to graduates.

The out-door Surgical Clinic of the free department of this Institution cared for over 8,300 patients during the last year. The admirable opportunities offered for practical observation of the more frequent surgical accidents and diseases make this clinic especially valuable and instructive to the student. Dr. R. E. Stone, who is in charge, will always give ample opportunities for individual work to all advanced students who may apply for regular attendance, during the Winter and Summer terms.

OPERATIVE SURGERY *The Miles 'Laboratory of Operative Surgery* is in charge of Professor Gessner, assisted by Drs. Maes, Crawford and Landry. In this course the laboratory work proper is preceded by a recitation on subjects previously assigned, with elaboration by the instructor and lantern slide illustrations. The operative work is done by the students exclusively, under supervision of the demonstrators. The entire field of general operative surgery is covered, the aim being to fit students for the operative work in general practice. Ample opportunity for experimental work is provided. Students are assigned in limited sections so as to emphasize the subjects taught through individual attention. The class of the fourth year is divided in two sections each covering laboratory periods of fifteen weeks.

GENITO-URINARY and VENEREAL DISEASES Practical teaching of the branch.

The course in Genito-Urinary and Venereal Diseases is in charge of Prof. Joseph Hume, who arranges the practical teaching of the branch. Students of the third year are assigned

to numerous cases, for personal practice in the examination of patients, passage of sounds, in irrigation methods, etc. The class is divided into sections of limited numbers, to facilitate the teaching, conducted three days of each week in the out-door male clinic.

In weekly general class lectures, Prof. Hume takes up in sequence the anatomy and physiology of the male genito-urinary tract, the diseases of the urethra, prostate, seminal vesicles, bladder, and kidneys, with special lectures on stricture, urinary fever and prostatic hypertrophy. Chancroid and its complications, sexual neuroses and syphilis are also discussed.

Text-books—Second Year: Laboratory Notes. Doty, Pilcher, Lynch, Scudder and Cotton on Fractures.

Third Year: *General Surgery and Minor Surgery*—DaCosta, Fowler, Lexer, Rose & Carless, McGuire, Park. *Surgical Pathology*; Senn, Warren, Laboratory Notes. *Venereal and Genito-Urinary Diseases*—Taylor, Hyde and Montgomery, Keyes, Morton, Watson and Cunningham, White and Martin.

Fourth Year: *Regional Surgery*—Prof. Matas' notes; Mumford and texts referred to under general surgery. For general reference, Keen's System of Surgery. *Operative Surgery*—Prof. Gessner's notes, Bickham; for general reference, Burghard.

ORTHOPEDICS AND SURGICAL DISEASES OF CHILDREN

PROFESSOR E. D. FENNER, M. D. (Orthopedics and Surgical Diseases of Children).

Dr. G. K. Logan, Clinical Assistant

Dr. P. A. McIlhenny, Clinical Assistant.

ORTHOPEDICS AND SURGICAL DISEASES OF CHILDREN

It will be the aim of this department to teach as fully as the material to be obtained from the clinics and wards will permit by bringing the student in close contact with the actual cases. Every effort will be made to emphasize practical diagnosis and treatment of the afflictions included under orthopedic surgery, and to point out the special features of the surgery of childhood, and in particular those af-

fections which are peculiar to early life. The demonstration of cases in the wards, clinics, and operating room will be supplemented by didactic lectures, fully illustrated by lantern slides, and by quizzes during the progress of the course.

DISEASES OF THE SKIN

PROFESSOR ISADORE DYER, Ph. B., M. D. (Diseases of the Skin).

Dr. Henry E. Menage, Lecturer and Clinical Instructor.

Dr. Ralph Hopkins, Clinical Assistant.

DISEASES OF THE SKIN

Instruction in skin diseases extends through the third and fourth years. In the third year systematic weekly lectures, text-book readings and quizzes are given. To fourth-year classes diseases of the skin are taught practically in the out-door clinics and wards of the Charity Hospital by the presentation and discussion of the patients exhibited. The class is divided into sections for this work and assigned for five weeks with $5\frac{3}{4}$ hours of clinics per week during which groups of students are made to analyze cases and undergo quizzing by Professor Dyer and Dr. Menage. Instruction is also given in the practical therapeutics of skin diseases.

General class lectures are given weekly, supplemented by lantern slide teaching and other demonstrations.

Text-books—Stelwagon; Jackson; Dyer.

OPHTHALMOLOGY

PROFESSOR M. FEINGOLD, M. D. (Ophthalmology).

Dr. Victor C. Smith, Demonstrator and Lecturer.

Dr. R. A. Davis, Clinical Assistant.

DISEASES OF THE EYE

Clinical instruction is given during the fourth year, but in order to facilitate instruction in diseases of the eye, several exercises are held at the end of the third year, in which anatomy and physiology of the eye are reviewed. At the close of these lectures a written examination will be held.

For clinical instruction, patients from the out-clinics and wards of the

Charity Hospital are brought before sections of the class. The material is used to present practically the diseases of the eye of prime importance to the future practitioner. Differential diagnosis, prophylaxis and treatment are emphasized. The important symptom complex of eye-strain is demonstrated through the minute examination of patients and their histories and by following up cases treated.

External affections of the eye are demonstrated and students are trained in the examination of patients, by allotting cases to students for personal examination. The anatomical and pathological features are especially discussed and illustrative plates, etc., are used in elucidation.

Chance is given to acquire familiarity with the use of the ophthalmoscope and its application.

The weekly lectures in the amphitheater are made use of in order to demonstrate the clinical symptoms in groups of cases, to show the progress of the disease in cases already demonstrated, and to give small groups of students a chance to see eye operations at close range.

In weekly lectures before the class at the Hutchinson Memorial Building, a didactic review of the anatomy, and physiology of the eye and its appendages is followed by a systematic presentation of the diseases of the eye, especially as they are related to diseases of the other organs. Here also, plates, books, pictures, schematic drawings, by the aid of the epidiascope and the projection lantern, are demonstrated and explained, and groups of patients are brought to demonstrate subjects already discussed.

Text-books—Fuchs; Haab; DeSchweinitz; Nettleship; Roosa and Davis; Gould and Pyle; Henderson; Hansell and Sweet; Fox; May.

OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

PROFESSOR CHARLES J. LANDFRIED, M. D. (Otology, Rhinology, and Laryngology).

Dr. J. P. Leake, Clinical Instructor.

Dr. S. Mertle Blackshear, Clinical Assistant.

DISEASES OF THE EAR, NOSE and THROAT

The student will be familiarized with the various instruments necessary for the early recognition of the diseases of the ear, nose, and throat, and this will be done in a practical way. The clinics at the Charity Hospital afford unusual opportuni-

The students will be given every opportunity for practical education in this department by assisting the professor in the various and frequent operative procedures. They will come in personal contact with infants and children presenting the diseases which, of late years, have been engaging the attention of the thinkers in medicine and surgery, and in which the early diagnosis and proper treatment have become a matter of paramount importance to the general practitioner.

Every effort will be made to so equip the class that when they leave the school they will be able to recognize the diseases of this department in a manner that will give them conviction; and that can only be done by specially training the eye and the touch.

The teacher of this branch will conduct clinical quizzes with the examination and treatment of the patient as a part of the routine.

Text-books—*Diseases of the Ear*—Politzer; Blake-Reik; Dench; Gleason. *Diseases of the Nose and Throat*—Ballenger; Kyle; Bosworth; Ball; Ingalls.

DEPARTMENT OF GYNECOLOGY

PROFESSOR S. M. D. CLARK, M. D. (Gynecology and Clinical Obstetrics).

PROFESSOR C. JEFF. MILLER, M. D. (Clinical Gynecology.)

Dr. C. J. Cole, Instructor in Gynecology.

Dr. W. H. Kostmayer, Instructor in Gynecology.

Dr. Maurice J. Gelpi, Instructor in Gynecology.

GYNECOLOGY The work in this department begins with the third year. The course is essentially practical. Instruction is given primarily, by clinical conferences; secondarily, through didactic work.

Third Year After a preliminary course in Gynecological Pathology the outdoor clinical work is assigned. The instruction is under the direction of three clinical instructors, thereby assuring small classes so that each student will be enabled to make the examinations found necessary. In the Gynecological Department of the Charity Hospital, the student enjoys unique clinical opportunities. The clinic is richly endowed with material, and further, it is possible to bring the student in direct contact with the cases.

Fourth Year Three operative clinics are held weekly at the Charity Hospital. Prof. Miller will conduct one of these operative clinics each week. At selected times the class is taken through the Gynecological wards, where clinical conferences are held.



DELGADO MEMORIAL.

ties for the study of these diseases and will be depended on for carrying out the clinical aspects of the teaching.

Once a week an exhibit clinic is conducted in the amphitheater; here, cases of special interest are presented and the end results of previously operated cases are discussed. A graded lecture course, consisting of one lecture a week, is given. Lantern slides are freely employed, graphically illustrating the lecture subject.

Text-books: Ashton; Kelly & Dudley.

DEPARTMENT OF OBSTETRICS AND CLINICAL GYNECOLOGY.

PROFESSOR C. JEFF. MILLER, M. D. (Obstetrics and Clinical Gynecology).

PROFESSOR S. M. D. CLARK (Clinical Obstetrics).

Dr. C. N. Chavigny, Assistant in Obstetrics.

Dr. P. B. Salatich, Assistant in Obstetrics.

Dr. W. D. Phillips, Assistant in Obstetrics.
Dr. J. F. Points, Assistant in Obstetrics.
Dr. E. D. Friedrichs, Assistant in Obstetrics.
Dr. M. T. Lanaux, Assistant in Obstetrics.
Dr. J. W. Newman, Assistant in Obstetrics.
Dr. Edith Loeber-Ballard, Assistant in Obstetrics.

Instruction in this branch will consist of didactic lectures, clinical demonstration, lantern slide exhibitions, bed side instruction, and the attendance upon patients in their homes during confinement.

Third Year The course begins with the third year. One hour a week is devoted to a lecture on the elements of obstetrics, the physiology of pregnancy, pelvimetry and the conduct of normal labor. Three hours a week are devoted to ward work in the Charity Hospital.

The class is divided into small sections and the students are given individual instruction in diagnosis, palpation, thorough drilling in the position of the fetus, the mechanism of labor, and are permitted to witness the deliveries in the wards. Several hundred deliveries occur annually in the obstetrical service, affording ample opportunity for every student to obtain individual instruction in all phases of obstetrical practice.

In addition to the ward service, Juniors are assigned to out-door patients and will be permitted to conduct normal cases under the supervision of an instructor.

Frequent quizzes will be held and three written examinations will be given during the session.

Fourth Year Two hours a week are devoted to lectures and quizzes. Three hours a week are devoted to bed side observation of patients in the obstetrical wards.

Special attention will be paid to diagnosis, the pathology of pregnancy, dystocia, the indications for and the use of forceps, and obstetric surgery.

Students will be expected to take histories, make physical examinations and render written reports of their observations during deliveries.

Out-Patient Department: In addition to the large amount of available material in the wards and out-door clinic of the Charity Hospital, the various instructors hold appointments in the out-door patient department of the Presbyterian Hospital, Touro Infirmary and

two private clinics. This material affords unusual opportunities for students to assist in deliveries in the patients' homes.

Two students will be assigned to each case and will be expected to assist at the delivery and render daily reports of the patients to the attending obstetrician.

Senior students who have shown satisfactory proficiency in their studies and have attended the required number of deliveries, with instructors, will be permitted to conduct normal cases with the Juniors assisting.

Text-books Recommended: Williams' *Text-book of Obstetrics*; Edgar, *The Practice of Obstetrics*; Petersen, *The Practice of Obstetrics*; Hirsch, *Text-book of Obstetrics*; Kerr, *Operative Midwifery*.

DEPARTMENT OF TROPICAL MEDICINE AND HYGIENE, INCLUDING PREVENTIVE MEDICINE.

PROFESSOR CREIGHTON WELLMAN, M. D. (Tropical Medicine, Hygiene and Preventive Medicine; Head of the Department and Director of the Laboratories).

DAVID SPENCE HILL, Ph. D., Professor of Educational Hygiene (Professor of Psychology and Education in Tulane).

MORTON ALDRICH, Ph. D., Professor of Industrial Hygiene (Head of Tulane Department of Economics).

JOSEPH DEUTSCH WEIS, M. D., Assistant Professor of Tropical Medicine and Hygiene and of Clinical Medicine.

CHARLES CASSIDY BASS, M. D., Assistant Professor of Tropical Medicine and Hygiene (Director of Laboratories of Clinical Medicine).

ANDREW GAIENNIE FRIEDRICH, M. A., D. D. S., Lecturer in Oral Hygiene (Dean of the Dental Department).

ROBERT EARL SWIGART, M. D., Lecturer on Tropical Medicine and Sanitation (General Superintendent Medical Department, United Fruit Company).

Alvin Pike Howard, Ph. B.. Instructor in Eugenics.

Howard Dudley King, M. D., Instructor in Tropical Medicine and Preventive Medicine.

Augustus McShane, M. D., Demonstrator in the Laboratories of Tropical Medicine and Hygiene.

, Demonstrator in the Laboratories of Tropical Medicine and Hygiene.

James Clifton Cole, M. D., Assistant in the Laboratories of Tropical Medicine and Hygiene.

Foster Mathew Johns, M.D., Assistant in the Laboratories of Tropical Medicine and Hygiene.

Charles James Bloom, B. S., M. D., Assistant in Hygiene.

Stanford Chaillé Jamison, M. D., Assistant in the Laboratories of Tropical Medicine and Hygiene.

Thomas Herbert Patton, A. B., M. D., Assistant in the Laboratories of Tropical Medicine and Hygiene.

Harry Heiman, Student Assistant in the Laboratories of Tropical Medicine and Hygiene.

Lodilla Ambrose, Ph. M., Secretary, Librarian, and Curator of Museum.

_____, Laboratory Technician.

The work in this Department is largely practical and is made up of two divisions. The first of these consists of the required work in Hygiene and Preventive Medicine for Juniors and for Seniors in Tropical Medicine. The second division includes the special advanced and research optional courses offered by the Department which are described below.

Arrangements are being effected, but are not formally completed, with the Departments of Engineering, Chemistry, Mathematics, etc., for the teaching of advanced courses in sanitary engineering, vital statistics, and other subjects not fully covered by the present announcement. These arrangements will be definitely formulated in the forthcoming special announcement of this Department.

Required Courses: The course of study in Hygiene and Preventive Medicine extends throughout the Junior year. It consists of one hour a week of lectures and demonstrations and six hours a week laboratory periods.

SYNOPSIS OF THE COURSE.

Didactic

(Consisting of lectures and Demonstrations).

Introductory Discussion.

Practical

(Consisting of laboratory and field work).

Examination of students' apparatus, general talk, preparation of stains, reagents, etc.

Vital Statistics.	Model work in filling out blanks and making returns, nomenclature of disease and death, examples of actuarial methods.
Immunity.	Chemotaxis, phagocytosis, hemolysis.
Air.	Air analyses, determination of C O 2 content, of particulate matter, of number of bacteria, study of mouth spray.
Water.	Collection of water samples, determination of turbidity, microscopic examination, estimate of hardness, of ammonia, nitrates and nitrites, number of bacteria per cc., detection of <i>B. coli</i> .
Milk.	Analysis, leucocytes, number of bacteria per cc., comparative plates of ordinary and certified milk, production of tuberculosis by injection of bad milk, visit to model dairy.
Foods as Disease Carriers.	Practical demonstration of slaughterhouse, meat, milk, and market inspection in New Orleans.
Soil.	Demonstration of action of wind on soil air, subsoil water, estimation of number of bacteria in soil.
Sewage.	Determination of total volatile and suspended matter, of nitrogen, of bacterial content.
Disinfection.	Thermal death points of pathogenic bacteria, thermoregulator comparisons of moist and dry heat, carbolic coefficients, alcoholic dilutions, formaldehyde tests.
Common Infectious Diseases.	Exercise in practical epidemiology, tracing, maps, bacteriological control of diphtheria in a school, Widal test with dried blood, Bass' macroscopic test, experimental rabies.

Vaccins, Bacterins and Antisera.	Demonstration of production of vaccinia in calf, serum inoculations in animals with controls, technic of making bacterial vac-cins.
Parasites.	Examinations of animals infected with Dipylidium, Ascaris, Trichina, etc., ova of worms, Bass' centrifugal method of detection in feces.
Insects and Diseases.	Breeding, mounting and dissection of mosquitoes, house flies, fleas, etc.
Diseases Common to Men and Animals.	Anthrax, glanders, echinococcus, ringworms, etc.
City Health Work.	Visit to Health Department of the City of New Orleans.
Quarantine.	Visit to U. S. quarantine station and marine hospital.
Pure Food and Drugs.	Detection of common adulterations, visit to pure food laboratory.
Occupational Disease and Accidents.	Visit to model factory and to emergency hospital.
Sanitary Engineering.	Visit to city water works and sewage plant, septic tanks.

The course in Tropical Medicine extends throughout the Senior year and consists of one hour a week of lectures and demonstrations, three hours per week laboratory periods, and one hour a week clinics before sections of the class at the Charity Hospital.

SYNOPSIS OF THE COURSE.

Didactic	Practical
(Consisting of lectures and demonstrations)	(Consisting of laboratory work and clinics)
The Etiology of Tropical Diseases.	Practice in special laboratory technic.
Heat stroke, pellagra, prickly heat, tropical poisons.	Clinic and demonstrations.
Blackwater fever, yellow fever.	Clinic, demonstration of specimens.

Leprosy, cholera, plague, Malta fever.	Clinic, demonstration of cultures, animal inoculations and pathological specimens.
Amebiasis, other dysenteries.	Clinic, diagnostic technic.
Malaria, spirochetoses.	Clinic, diagnostic technic, demonstration of slides and specimens.
Trypanosomiases and herpetomoniases.	Demonstration of infected animals, of charts, maps, photographs and specimens.
Filariases, other tissue parasites.	Demonstrations, infected animals, diagnostic technic.
Hookworm and other intestinal parasites.	Clinic, diagnostic technic.
Beri-beri, sprue, dengue and other obscure diseases.	Clinic or demonstration of charts, photographs, maps and pathological specimens.

Elective Courses.

In addition to the above, advanced optional courses are offered to physicians, engineers, teachers, missionaries, both Catholic and Protestant, physical directors, social workers and other qualified persons.

These courses are the following:

- Course 1. The Principles of Hygiene.
- Course 2. Public Health and Preventive Medicine.
- Course 3. Tropical Medicine.
- Course 4. Medical Parasitology.
- Course 5. Medical Entomology.
- Course 6. Research in Public Health and Preventive Medicine.
- Course 7. Research in Tropical Medicine.
- Course 8. Research in Medical Parasitology.
- Course 9. Research in Medical Entomology.

On the satisfactory completion of any or all of these elective courses certificates of attendance and proficiency will be granted, and such certificates will count toward the future degrees or diplomas in Public Health and Tropical Medicine contemplated by Tulane University.

Full particulars regarding such special courses may be had on application to the Dean.

Text-books: *Hygiene and Preventive Medicine*, Public Health Laboratory Work, Kenwood. For reference: *Practical Hygiene*, Harrington.

Tropical Medicine, Manual of Tropical Medicine, Castellani and Chalmers. For reference: *Handbuch der Tropenkrankheiten*, Mense.

LIST OF DONATIONS RECEIVED BY MEDICAL DEPARTMENT DURING THE PAST YEAR

Department of Tropical Medicine—

United Fruit Co.	\$ 25,000.00
Mr. R. H. Downman	600.00
Mr. E. N. Wisner	500.00
Messrs. W. G. Vincent, Frank B. Hayne, Gibert and Clay, Charles A. Farwell, I. L. Lyons & Co., A. Baldwin, Jr., Walter Van Benthuysen, Coleman Adler, W. R. Irby, Frank L. Levy, Hard & Rand, J. M. Thomson, and anonymous donations altogether totaling over 134 volumes from Mrs. Joseph Jones.	1,200.00
In addition, the acknowledgment is also made of the receipt of a sum from the 14th Ward Health Association, from funds left over from the Yellow Fever Commission of 1905, specifically given for the founding of a library in honor of Finlay, Reed, Carroll, Lazear and Agramonte, amounting to.....	1,375.00

Department of Pathology—

Lepra Fund—Research (Anonymous)	\$ 500.00
Mrs. Isidore Newman, Research	100.00
Dr. M. Couret, Research	50.00
Dr. R. Matas, Surgical Pathology	100.00
Dr. C. W. Duval, Surgical Pathology	100.00
Dr. C. W. Duval, Research	320.00

Department of Physiology—

Popular Science Monthly Magazines from the year 1872 to 1896, 48 volumes in all, from Dr. J. B. Guthrie.

The sum of \$20.00 from Dr. R. M. Van Wart for Laboratory Expenses.

Department of Medicine—

Dr. John B. Elliott, Jr., Cash	\$ 300.00
Dr. John B. Elliott, Jr., <i>British Medical Journal</i> , 1911....	8.50
Dr. John B. Elliott, Jr., <i>British Medical Journal</i> , 1911....	8.50
Drs. Parham and Martin, one Opsonic Incubator	35.00
Dr. C. C. Bass, <i>Journal American Medical Association</i> from 1905 to 1912, whole volumes each.	

Dr. C. C. Bass, *Journal of the Southern Medical Association*, 1911; *N. O. Medical and Surgical Journal*, 1907-1912; *Annales de l'Institut de Pasteur*, 1910-1911; *Bulletin de l'Institut de Pasteur*, 1910-1911.

Library—

Donations are acknowledged from the following sources:

American Academy of Ophthalmology; American Association of Physicians; American Dermatological Association; American Journal of Orthopedics; American Proctologic Society; Bellevue Hospital; Chicago Pathological Society; Chicago Department of Health; Edinburgh Royal Society; Gospel Trumpet Company; International Journal of Surgery; Isthmian Canal Commission; Kaiserlichen Universitat, Tokyo; Louisiana State Board of Health; Lippincott and Company; Massachusetts General Hospital; Massachusetts State Board of Health; Michigan State Board of Health; Missouri State Board of Health; New York Board of Health; Railway Library; Rockefeller Sanitary Commission; United States (Bureau of the Census, Public Health and Marine Hospital Service, Surgeon General's Office); Union Press.

From Hon. Garland Dupre, Mr. Henry Phipps, Drs. Czarnowski, R. B. Bean, L. R. DeBuys, Isadore Dyer, J. B. Elliott, Jr., M. Feingold, J. B. Guthrie, J. T. Halsey, Jos. Hume, L. E. LeBeuf, I. I. Lemann, Samuel Logan (Estate of); R. Lyons, Sir William Osler, Drs. W. R. Robinson, E. C. Samuel, S. K. Simon, E. Souchon, H. W. E. Walther, J. D. Weis, C. A. Wood, T. A. Woodruff, and C. W. Allen.

General—The donation of one Zeiss Microscope by Dr. R. M. Van Wart.

CATALOG OF STUDENTS

GRADUATE DEPARTMENT

* Interns of the Charity Hospital.

|| Partial-course students.

† Died.

STUDENTS OF FOURTH YEAR AND ABOVE, (INCLUDING POST-GRADUATE STUDENTS).

CLASS OF 1912

Adiger, David	Louisiana
Allen, Larcus B.	Alabama
*Ames, Allen Monti	Mississippi
Ash, Geo. Glenmore, (M.Ph.)	Mississippi
Barham, Ben Edwards (D. V. S.)	Louisiana
Beard, James Wiley	Alabama
Berry, Chas. Richard (A. M., B. S.)	Mississippi
Berry, Marcus Lafayette	Mississippi
*Berry, Winfield Scott	Mississippi
Bertucci, Emile Augustus	Louisiana
Billingsley, W. Hugh, Jr.	Louisiana
Black, William Thomas (M. D.)	Texas
Blalock, William Columbus (M. D.)	Texas
*Bloch, Emile	Louisiana
Bloom, Chas. James (B.S.)	Louisiana
*Bodet, Roy Elmer (A. B.)	Louisiana
*Bordenave, Claude Justin (A. B.)	Louisiana
Boswell, Hugh Priddy	Mississippi
*Bradburn, Muir, (B.S.)	Louisiana
*Bradburn, Wm. Plummer Jr. (B.S.)	Louisiana
Brannin, Edward Bacon (M. D.)	Texas
Brown, Camille Peter	Louisiana
Brown, John Wilcox (Ph. Chem.)	Louisiana
Brown, Wm. Edgar (M. D.)	Texas
Bussey, Norman Albert	Texas
Cappleman, James Jacob (M. D.)	Texas
Carr, Isaac Price	Mississippi
*Carter, Philips John (B.S.)	Florida
Childs, William Leo (M. Ph.)	Louisiana

Christian, Sanders Lewis	Louisiana
Clark, Wallace Henderson	Georgia
Clements, Merit De Witt	Alabama
Coello, Carlos Virgilio (M. D.)	Ecuador
Compton, Wm. J. (M. D.)	Texas
Connely, Edmund McCollam (M. D.)	Louisiana
Coppedge, Lewellyn Jackson (M. D.)	North Carolina
Craddock, French Hood (B. S.)	Alabama
Cupp, Chas. Daniel	Texas
David, Joseph Duncan	Louisiana
De Velling, John Robin	Mississippi
Dicks, John Fleming	Louisiana
Doles, Howard Patrick	Louisiana
*Duncan, Arnott Kell	Louisiana
Escalante, Ermelo Escalante (A. B.)	Mexico
Evans, Horace Marvin	Oklahoma
Faulk, Leonidas Barkdull	Louisiana
Fite, Houston Bartow (B. S.)	Oklahoma
Fortier, Lucien Amedée	Louisiana
Gardner, John Gould	Canada
*Garrett, James DeWitt	Alabama
Gates, Sterling Johnson (M. D.)	Louisiana
Gatlin, Joseph Savan	Mississippi
*Gaulden, Charles Lewis (A.B.)	Mississippi
Geiger, Jacob Casson, Jr. (M.Ph.)	Louisiana
Gibbs, Chas. Edward	Missouri
*Graffagnino, Peter	Louisiana
Graves, Edwin (M. D.)	Texas
Graves, William Earl	Arkansas
*Gray, Denver Francis	Louisiana
*Hamilton, Wm. Stewart, Jr.	Mississippi
Hamley, Wm. Hugh	Louisiana
Hand, Albert Powe (M. D.)	Mississippi
Hardy, Walter Baber (B.S.)	Alabama
Harrison, Roy Bertrand	Louisiana
Hartman, William Vernon (Pharm. Grad.)	Missouri
*Hauer, George Joseph (A. M.)	Louisiana
*Hirsch, Julian George (Pharm. Grad.)	Louisiana
*Holbrook, Chas. Shute (B.S.)	Louisiana
Hooker, Otho Douglas	Mississippi
Jackson, Albert Amza	Texas

Jackson, Renben Wright	Texas
*Jacobs, Adolph (A. B.)	Louisiana
Jainison, Stanford Chaillé	Louisiana
Johns, Foster Matthew	Louisiana
Johnson, Joseph Edgar	Texas
Johnson, Wiley Carroll	North Carolina
*Kahn, Alfred Montefiore	Mississippi
Kibbe, Pressley Aloysius	Louisiana
King, John Asgil (M. D.)	Mexico
Kirby, Carlos David (B. S.)	Mississippi
Kirn, Theodore Frank	Louisiana
Kirsch, Max David	Alabama
Lee, Henry Watkins Allen	Louisiana
Leigh, Robt. Matthews (B.S.)	Mississippi
Lewis, John Aden	Arkansas
Liddell, Tully Joseph (B.S.)	Mississippi
Liddle, Edward Bloomfield	Louisiana
Lorio, Lionel Francis, (A.B.)	Louisiana
McKoin, Bunnie Mac (Ph. G.)	Louisiana
*McKowen, John	Louisiana
Mann, David Aden (M. D.)	Texas
Maxwell, Joseph Alston (B. Sc.)	Alabama
May, Ross Reynolds (B. S.)	Texas
Miles, Walter Lee (M. D.)	Louisiana
Moody, Thos. C. (M. D.)	Louisiana
Moore, Harvin C. (M. D.)	Texas
Moore, Merwin Blanchard	Mississippi
Murphy, Garland Doty	Louisiana
Nelson, Henry Everett	Louisiana
*Neves, George	Oklahoma
Nichols, Herbert Nathan Thomas (A. B.)	Louisiana
Noble, Wm. Davis	Mississippi
Odom, Kirke Stanley	Louisiana
Palmisano, Dominick Andrew	Louisiana
*Patton Thomas Herbert (A. B.)	Alabama
*Payne, Walter Clifton	Alabama
Peters, James Ingram	Louisiana
Pettit, Doctor Absalom (M. D.)	Mississippi
Phelps, Meade Hubbard	Louisiana
Powell, Cincinnatus Dickson (M. D.)	Mississippi
Raphiel, Joseph	Louisiana

Reed, William Arthur	Texas
Richards, Samuel Burgess (M. D.)	California
Roberts, Harry Clay	North Carolina
*Roberts, James Cleveland	Louisiana
Rosborough, Eli Taylor	Texas
Ross, Rex Roy	Texas
Sanders, Guy Cecil	Texas
Schulze, Gustave (M. D.)	Texas
Scott, John Stanley	Louisiana
*Scott, Warren Fielding	Louisiana
Seale, Geo. Thomas	Louisiana
Segura, Joseph Otto (M. D.)	Mississippi
Sevier, Howard Clay	Louisiana
Shackelford, Clarence Watts (M. D.)	Alabama
Shackelford, James Allen	Texas
Shields, Frederick Brooke (M. D.)	Texas
Signorelli, John	Louisiana
Smith, Alvah Purser (M.Ph.)	Louisiana
Smith, James Edward	Alabama
Songy, Stephen John (B.S.)	Louisiana
*Sparks, David Hoyt	Alabama
Staring, Houston Louis	Louisiana
Stirling, Earl (M. D.)	Texas
Stovall, Wm. Davison (B. S.)	Mississippi
*Strauss, Alvin Weil	Arkansas
Thom, James Alexander	Louisiana
Townsend, Charles Cate (M. D.)	Arkansas
Turnipseed, Jesse Andrew (M. D.)	Mississippi
Tusson, Walter J. B. (M. D.)	Louisiana
Wade, Herbert Windsor	Massachusetts
Wails, James Otto	Oklahoma
Walshe, Thos. John (M. D.)	Louisiana
Walters, James Harry	Florida
*Webb, Rufus Clyde, Jr. (B. Sc.)	Louisiana
White Clarence Monroe	Louisiana
*Williams, Wm. Orin	Texas
*Wolf, Monroe	Mississippi
Young, Isaac Townsend Jr.,	Louisiana

THIRD YEAR STUDENTS, CLASS OF 1913

Barr, James Monroe	Mississippi
Barron, Win. Marshall	Mississippi
Bates, Thos. Hy.	Florida
Beard, Robt. Briggs (B. S. Eng.)	Alabama
Bennett, William Henry	Texas
Bernhard, Robert	Louisiana
Black, Walter Alvin	Texas
Boudreaux, Luke Martial	Louisiana
Brandon, John Wm., Jr. (B. S.)	Mississippi
Butler Emmett Doil	Mississippi
Cannon, Abernethy Benson	Alabama
Cleveland, Thomas Grover	Mississippi
Comeaux, Amable Albert (Ph. G.)	Louisiana
Conkling, Chas. Mordecai	Florida
Connell, Evan Shelby	Missouri
Craighead, Joseph Wiley	Alabama
Cronan, George Augustus (M. Ph.)	Louisiana
D'Aunoy, Joseph Rigney (B. S.)	Louisiana
Davidson, Toxey Lee	Texas
Dufner, Carl Travis	Texas
Durham, Silas Lucious	Louisiana
Evans, Theophelious Watkins	Louisiana
Fernandez, Julius Raymond	Louisiana
Fleming, Thomas J. (A. B.)	Georgia
Fortner, Amos Hall, Jr.	Texas
Furr, James Edward (B. Sc.)	Mississippi
Garrett, Broox Cleveland (B. S.)	Alabama
Gondolf, Harold J.	Louisiana
Guerrant, Edward Putney	Kentucky
Hamilton, Chas. Edward (A. B.)	Louisiana
Hamilton, Edward Blackshear	Oklahoma
Handly, Lucius Lamar	Texas
Heiman, Harry	Louisiana
Herrmann, Ferdinand Hirsh	Georgia
Higdon, Budd H.	Mississippi
Hirsch, Edward Klaus	Mississippi
Hull, Austin Oliver	Texas
Hunt, William Robert	Mississippi
James, William Adam DeWitt	Mississippi
Jones, Will O'Daniel	Georgia

Kahn, Sylvan David	Texas
Kappel, Archibald Charles (A. B.)	Louisiana
Korff, Arthur Louis	Texas
Kyzar, James Hugh (Ph. G.)	Alabama
Lacroix, Paul George (B. S.)	Louisiana
Lambeth, Walter Prescott (B. I.)	Louisiana
Landry, Paul Tillou (B. S.)	Louisiana
Levy, Lewis Harris (B. S.)	Louisiana
Lieberman, John Frank	Arkansas
McHenry, Armand Goldsmith	Louisiana
McLeod, Gaylord Floyd (A. B.)	Mississippi
McWilliams, Chas. Allen (B. S.)	Alabama
Maxwell, Thos. Andrew	Louisiana
Metz, Waldemar Rice (B. S.)	Louisiana
Moody, Maxwell (A. B.)	Alabama
Moulton, Joseph Shakspeare	Louisiana
Mouton, Marc Monroe	Louisiana
Oriol, Raymond Adrian, Jr.	Louisiana
Petitjean, Ernest Joseph (B. S.)	Louisiana
Rand, Paul King	Texas
Sanders, John Gillis	Alabama
Sartin, Bennett (B. Phil.)	Mississippi
Sellers, Thos. Benton (Ph. Ch.)	Alabama
Sentell, Newton Washington	Louisiana
Smith, Wm. Kate	Arkansas
Tedesco, Ignatius	Louisiana
Trimble, Wm. Wilbourne	Louisiana
Turner, John William (B. Pharm.)	Georgia
Van Horn, Herman Henry (A. B.)	Missouri
Van Schaick, Harold Dean	Wisconsin
Walker, James Charles	Missouri
Walker, John Milton	Missouri
Westfall, George Arthur	Oklahoma
Wicker, John Kieffer (A. B.)	South Carolina

SECOND-YEAR STUDENTS, CLASS OF 1914

Anderson, Joseph John	Texas
Arnold, Lloyd,	Texas
Arrendell, Cad Walder	Oklahoma
Barbour, Herbert Leo (B. S.)	Kentucky
Bird, Thomas Buffington (B. S.)	Louisiana

Braud, Sidney Francis (A. B.)	Louisiana
Browne, Henry Silas (A. B.)	Louisiana
Burch, George Edward	Louisiana
Burger, Otto Jacob	Indiana
Burns, William Wilkes (A. B.)	Alabama
†Byrnes, Bernard Boatner	Texas
Clark, Archibald Fletcher	Texas
Coleman, Robert Henry	Texas
Conger, Sidney Beeson (B. S.)	Louisiana
Corbin, Robert Adwood	Louisiana
Cowles, Andrew Grant	Illinois
Culpepper, William Louis	Texas
Dean, Claude (B. S.)	Alabama
Dunaway, Geo. Lambert	Alabama
Edrington, Nicholas Kuntz	Louisiana
Elson, Leo	Louisiana
Faget, Edward Beeg	Louisiana
Faget, Guy Henry	Louisiana
Faulk, John William	Louisiana
Gardiner, Henry Lawrence	Louisiana
Gooch, Frank Branch	Texas
Goodson, William Eugene (B. Sc.)	Alabama
Graham, Rossner Enders (B. S.)	Louisiana
Harris, Roy (Pharm. Gr.)	Texas
Heard, Joseph Eugene.	Tennessee
Hébert, Louis Alexander (B. S.)	Louisiana
Holloway, Luther William	Florida
Hyman, David	Louisiana
Jarrell, Foster (Ph. Chem.)	Arkansas
Leitch, Lewis Ball	Mississippi
Lochte, Henry Clarence	Mississippi
Logsdon, Will K.	Texas
Luckett, Francis Carlton	Mississippi
Lyons, Marcy Joseph	Louisiana
McHugh, Thomas Jefferson	Louisiana
McKee, James Ward	Texas
Martin, John David	Texas
Matte, Abraham	Louisiana
Meyer, Monte Fiore	Louisiana
Mitchell, John Henry	Texas
Murphy, Clarence Stephen	Texas

Niblack, Ray Roswell	Florida
Oliver, Mildred Lusk, (B. Phil.)	Mississippi
Overbay, Frank Anderson	Florida
Palmer, Bascom Headen, Jr.	Florida
Perret, Joseph Maxime (A. B.)	Louisiana
Pharr, John Newton	Louisiana
Pitts, Wilton Grady	Mississippi
Platt, Robert James	Louisiana
Querens, Percy Lennard	Louisiana
Robin, Labasse Joseph (A. B.)	Louisiana
Schochet, Sydney Sigsfried	Louisiana
Soniat, Theodore Polycarpe (A. B.)	Louisiana
Spearing, Joseph Watkins	Tennessee
Taylor, Geo. Washington (M. S.)	Alabama
Townsend, Chas, Kennard (A. B.)	Arkansas
Vega, Jaffray Joseph	Louisiana
Villaverde, Albert Joseph	Cuba
Werlein, Presley Ewing	Louisiana
Willis, Leonard Warnbacher	Georgia
Wise, Bowman Joel (A. B.)	Georgia

FIRST-YEAR STUDENTS, CLASS OF 1915

Aiken, William Holcombe (B. Eng.)	Louisiana
Allen, Victor Kirkpatrick	Arkansas
Arrillaga, (y Urrutia) Carlos	Porto Rico
Atkins, William Lamar	Louisiana
Bain, Roy Ephraim	Arkansas
Baker, Walter Joseph	Louisiana
Baldwin, Joseph Faure	Texas
Beridon, George Regard	Louisiana
Black, Thomas Nathaniel Jr.,	Oklahoma
Boals, Elmer Harris	Arkansas
Brinson, Walter Leslie	Georgia
Butts, James William	Arkansas
Cappel, Jack Thompson	Louisiana
Cassegrain, Octave Charles (A. B.)	Louisiana
Chetta, Frank	Louisiana
Clark, Beverly Earle	Louisiana
Collier, George Benjamin	Alabama
Cushman, Hampton Pharr	Louisiana
de Laureal, Louis James (B. Sc.)	Louisiana

Devlin, William Jeremiah	Louisiana
Donald, Pressly Young (A. B.)	Alabama
Dubos, Louis Joseph (A. B.)	Louisiana
Dupuis, J. Willis	Louisiana
Faulk, Ernest Cleveland	Louisiana
Gardner, Powell Beal (A. B.)	Arkansas
Garner, Marcellus C.	Mississippi
Garrett, Joseph William	Oklahoma
Gladden, Addley Hogan Jr., (A. B.)	Louisiana
Goodson, Charles L.	Louisiana
Graves, Alexander Wilson	Alabama
Hauser, George Henry	Louisiana
Hotard, Roland Frank	Louisiana
Humphreys, Ralph Wilber (B. Sc.)	Georgia
Jobson, Alexander Mettauer Charles (B. Sc.)	Florida
Kinkead, Kyle Johnston (Ph. B.)	Kentucky
Lafleur, Moise	Louisiana
Latiolais, Thomas	Louisiana
Locascio, James Louis (Pharm. Chem.)	Louisiana
Lopez, Louis Vyasa James	Louisiana
McCall, Julius Watkins	Alabama
Martin, Chesley Marion	South Carolina
Mathias, Daniel Francis	Mississippi
Matthews, Samuel Currie (A. B.)	Alabama
Miller, Charlie Robert	Texas
Miller, Preston Joseph (A. B.)	Louisiana
Murphy, Daniel Joseph	Louisiana
Paine, Ruffin Alexander	Louisiana
Pareti, Auguste Joseph (A. B.)	Louisiana
Passafume, Charles Joseph	Louisiana
Peyton, Robert Lee	Mississippi
Propst, Thomas Cannon (B. Sc.)	Alabama
Robinson, Oscar W.	Texas
Roy, Kirby Arthur (A. B.)	Louisiana
Salomon, Jules Kaufman	Florida
Sharp, Covington Hardy	Louisiana
Simon, Henry Theodore	Louisiana
Sims, Harry Vernon (A. B.)	Louisiana
Terhune, William Barclay Jr.,	Louisiana
Wall, Charles Kindrick	Georgia
Weaver, Samuel	Texas
Zengel, Harry Loomis	Louisiana

PRELIMINARY YEAR STUDENTS, CLASS OF 1916

Bashinski, Benjamin	Georgia
Beary, Andrew Thomas	Louisiana
Belden, Webster Whitall	Louisiana
Burke, William Patrick	Louisiana
Charbonnet, Pierre Numa	Louisiana
Dicks, John Barbor	Mississippi
Edwards, Eugene Jackson	Georgia
Eidson, William Russell	Alabama
Ferran, John Blaize	Louisiana
Ford, Charles Douglas	Louisiana
Guma, Raul	Cuba
Hava, Walter Chavigny	Louisiana
Irwin, William Poitevent	Louisiana
Levy, Edwin Mayer	Louisiana
Magruder, Agustin Logan	Louisiana
Mailhes, Roger John	Louisiana
Major, Eric Leonial	Louisiana
Miller, Hilliard Eve	Louisiana
Naef, Emile	Louisiana
Parker, Farrar Burr	Louisiana
Pratt, John Galbraith	Louisiana
Semple, Harold Frank	Colorado
Wideman, Yandell	Louisiana

GRADUATES OF 1912

At the Seventy-eighth Annual Commencement, held Wednesday, May 29, 1912, degrees were conferred on 103 graduates.

DOCTORS OF MEDICINE

Larcus B. Allen,	Joseph Savan Gatlin,
Allen M. Ames,	Charles Lewis Gaulden,
Ben E. Barham,	J. C. Geiger,
Charles Richard Berry,	Charles Edward Gibbs,
Marcus Lafayette Berry,	Peter Graffagnino,
Winfield Scott Berry,	Wm. Earl Graves,
Emile Augustus Bertucci,	Denver Francis Gray,
Wiley Hugh Billingsley.	William Stewart Hamilton, Jr.
Emile Bloch,	Walter B. Hardy,
Charles James Bloom,	Roy Bertrand Harrison,
Roy Elmer Bodet,	William V. Hartman,
Claude Justin Bordenave,	Geo. Jos. Hauer,
Hugh P. Boswell,	Julian G. Hirsch,
Muir Bradburn,	Charles Shute Holbrook,
Wm. Plummer Bradburn, Jr.	Otho Douglas Hooker,
Camille P. Brown,	Albert A. Jackson,
John Wilcox Brown,	R. W. Jackson,
Norman A. Bussey,	Adolph Jacobs,
Philips John Carter,	Stanford Chaillé Jamison,
William Leo Childs,	Foster M. Johns,
Sanders Lewis Christian,	Joseph Edgar Johnson,
Wallace H. Clark,	Wiley Carroll Johnson,
Merit DeWitt Clements,	Alfred M. Kahn,
French Hood Craddock,	Pressley Aloysius Kibbe,
Chas. D. Cupp,	Carlos David Kirby,
Joseph Duncan David,	Maxwell David Kirsch,
John Robin DeVelling,	Robert Matthews Leigh,
John Fleming Dicks,	Tully Joseph Liddell,
Howard P. Doles,	Edward Bloomfield Liddle,
Arnott Kell Duncan,	Lionel Francis Lorio,
Horace Marvin Evans,	Bunnie McEwin McKoin,
L. Barkdull Faulk,	John McKown,
Lucien Amedee Fortier,	Joseph Alston Maxwell,
J. Gould Gardner,	Ross Reynolds May,
James DeWitt Garrett,	Merwin B. Moore,

Garland Doty Murphy,
Harry Everett Nelson,
George Neves,
William Davis Noble,
Thomas Herbert Patton,
Walter Clifton Payne,
Jas. I. Peters,
Meade H. Phelps,
William Arthur Reed,
Harry Clay Roberts,
James Cleveland Roberts,
Eli T. Rosborough,
Rex Roy Ross,
Guy Cecil Sanders,
J. Stanley Scott,
Warren Fielding Scott,
Howard Clay Sevier,

James Allen Shackelford,
John Signorelli,
J. E. Smith,
David Hoyt Sparks,
Honston Louis Staring,
William Davison Stovall,
Alvin W. Strauss,
James Alexander Thom,
H. Windsor Wade,
James Otto Wails,
J. Harry Walters,
Rufus Clyde Webb, Jr.
Clarence Monroe White,
W. Orin Williams,
Monroe Wolf,
Isaac T. Young, Jr.

Department of Pharmacy

Tulane University of Louisiana

ANNOUNCEMENT

1912-13

The University is authorized by law to grant diplomas in Pharmacy, and the Medical Department has exercised this privilege since 1838. Beginning with the session of 1908, the Pharmaceutical School became the Department of Pharmacy of The Tulane University of Louisiana.

The regular pharmacy course begins September 30, 1912, and continues throughout the academic year of thirty-two weeks. The course of studies will be conducted in the Richardson Chemistry Building and in the Richardson Memorial Building on the Campus of the University. The equipment of the various laboratories is ample and up to date.

Course of Study Two graded courses of thirty-two weeks each will be required to complete the course of study leading to the degree of Ph. C. (Pharmaceutical Chemist). The degree of Doctor of Pharmacy will be conferred on holders of the Ph. C. or Ph. G. degree after an additional year of work in graded and special courses. Excellent opportunities will be presented to those who are sufficiently prepared to take up Pure Food and Drug Analysis.

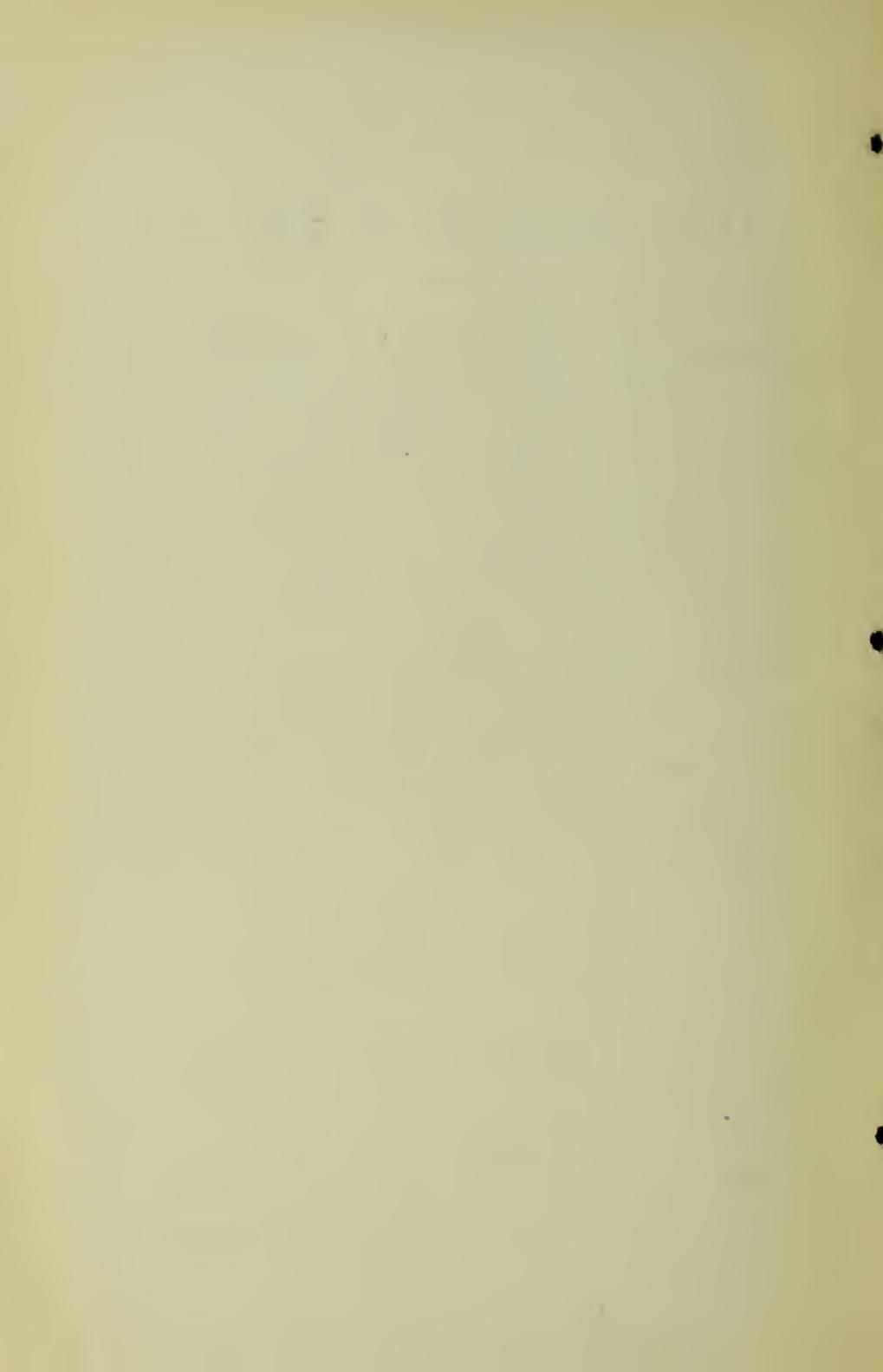
Women are admitted as students to the full course in pharmacy on the same terms and conditions as men.

For catalog or other information address,

Dr. Isadore Dyer, Dean,

P. O. Drawer 261,

New Orleans, La.



POST-GRADUATE MEDICAL DEPARTMENT
OF THE
TULANE UNIVERSITY OF LOUISIANA
NEW ORLEANS POLYCLINIC

PROFESSOR CHAS. L. CHASSAGNAC, DEAN, Genito-Urinary and Rectal Diseases.

PROFESSOR P. E. ARCHINARD, Diseases of the Nervous System.

PROFESSOR A. G. FRIEDRICH, Dental and Oral Surgery.

PROFESSOR P. MICHINARD, Obstetrics and Gynecology.

PROFESSOR T. S. KENNEDY, Diseases of Children.

PROFESSOR G. FARRAR PATTON, Clinical Medicine.

PROFESSOR E. D. MARTIN, General Surgery.

PROFESSOR J. A. STORCK, Diseases of the Digestive System.

PROFESSOR FELIX A. LARUE, Operative and Clinical Surgery.

PROFESSOR E. M. DUPAQUIER, Clinical Therapeutics and Tropical Medicine.

PROFESSOR H. S. COCRAM, Clinical Gynecology.

PROFESSOR OTTO LERCH, Medical Diagnosis.

PROFESSOR E. A. ROBIN, Diseases of the Eye.

PROFESSOR JOHN F. OECHSNER, Orthopedics and Surgical Diseases of Children.

PROFESSOR S. P. DELAUP, Surgery of the Genito-Urinary Organs and Rectum.

PROFESSOR H. E. MENAGE, Diseases of the Skin.

PROFESSOR W. M. PERKINS, Clinical and Minor Surgery.

PROFESSOR W. H. SEEMANN, Clinical Microscopy and Tropical Medicine.

PROFESSOR R. CLYDE LYNCH, Diseases of the Ear, Nose, and Throat.

DR. W. D. PHILLIPS, Operative Gynecology on Cadaver.

The twenty-sixth annual session opens October 1912 and closes June 1913. Physicians will find the Polyclinic an excellent means for posting themselves upon modern progress in all branches of medicine and surgery. The specialties are fully taught, including laboratory and cadaveric work.

RATES—All branches (20). Six weeks, \$100.00. Four weeks, \$75.00.

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THE NEW ORLEANS COLLEGE OF DENTISTRY
DENTAL DEPARTMENT OF
THE TULANE UNIVERSITY OF LOUISIANA

The thirteenth annual session will begin Monday; September 30, 1912. The session of 1912-1913 will be the third year of the New Orleans College of Dentistry as the Dental Department of the Tulane University with instruction combined with the Tulane Medical Department in the fully equipped laboratories of Anatomy, Physiology, Pathology, Chemistry, etc., now located in the new Richardson Memorial and Richardson Chemistry buildings.

Thorough instruction covering a course of three years, beginning the first of October and concluding the last week in May.

Practical laboratories in all branches of Dentistry proper and well established clinics in the Hutchinson Memorial and at the Charity Hospital. Additional clinic material is afforded by the various orphanages and charitable institutions in the city where dentistry is in charge of the Dental Department.

Modern equipment and all facilities for complete instruction.

Entrance requirements are standard: High School or Academy diplomas; first grade teacher's certificate or certificate of having completed satisfactorily the third year's course at a recognized high school.

FEES: General Tickets, \$150.00 per session; matriculation fee \$5.00, and breakage fees for Laboratories are extra; \$25.00 graduation fee.

Students may enter the school at any time of the year, availing themselves of the various clinics, by paying a fee of \$25.00 which will apply to the regular tuition fee.

For further particulars and catalog apply to

ANDREW G. FRIEDRICHs, M. D., D. D.S., DEAN,
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